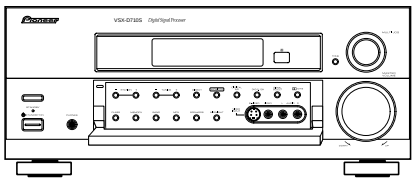
Service Manual



ORDER NO.
RRV2425

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D710S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D710S		
KUXJI	◯	AC120V	
KCXJI	◯	AC120V	

CONTENTS

1. SAFETY INFORMATION ····· 2
2. EXPLODED VIEWS AND PARTS LIST ····· 3
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM ····· 8
4. PCB CONNECTION DIAGRAM ····· 28
5. PCB PARTS LIST ····· 43
6. ADJUSTMENT ····· 51
7. GENERAL INFORMATION ····· 52
7.1 DISASSEMBLY AND DIAGNOSIS ····· 52
7.2 PARTS ····· 54
7.2.1 IC ····· 54
7.2.2 DISPLAY ····· 57
8. PANEL FACILITIES AND SPECIFICATIONS ····· 59

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

©PIONEER CORPORATION 2001

T – ZZK JAN. 2001 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

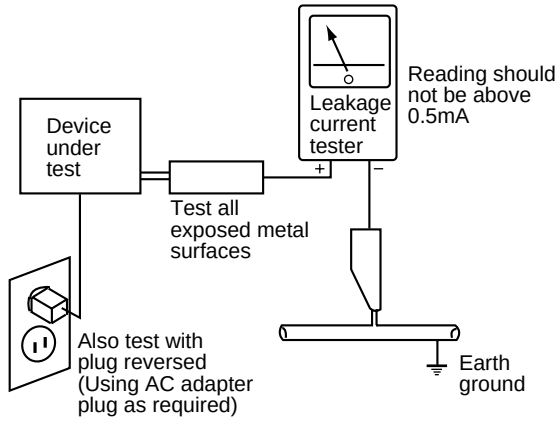
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

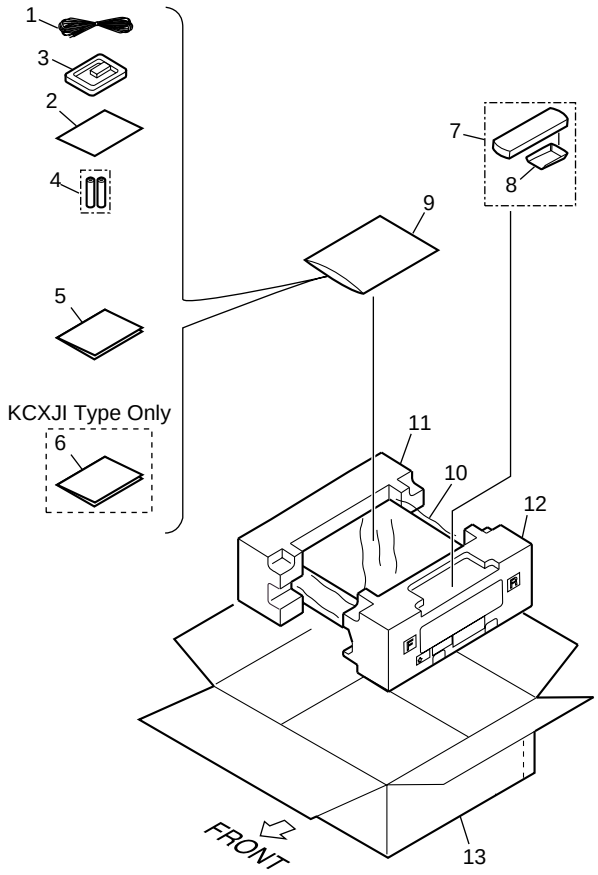
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

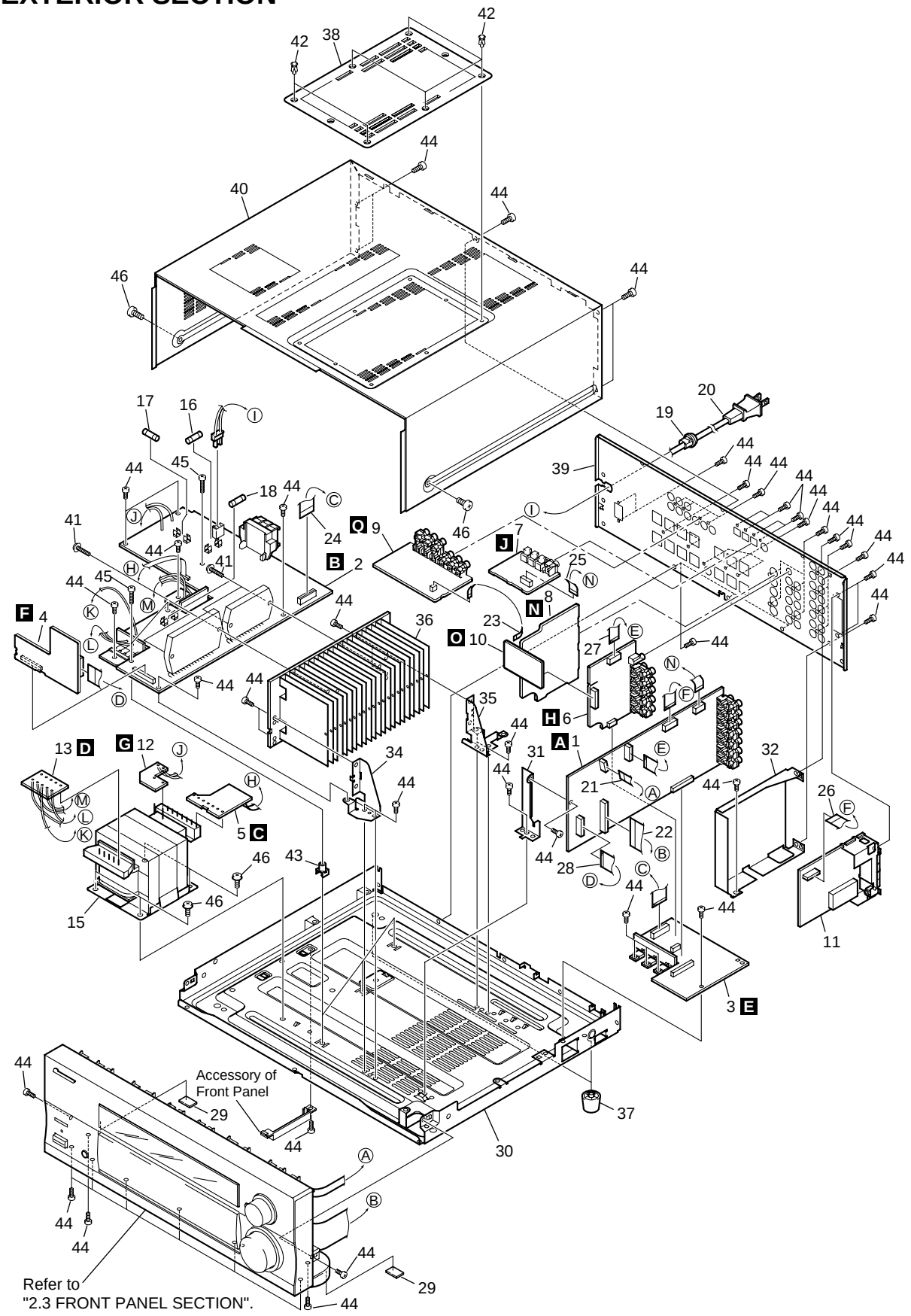
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7004
NSP	2	Warranty Card	ARY7045
	3	AM Loop Antenna	ATB7009
NSP	4	Dry Cell Battery (R6P, AA)	VEM-013
	5	Operating Instructions (English)	XRB3004
	6	Operating Instructions (French)	See Contrast table (2)
	7	Remote Control Unit	XXD3028
	8	Battery Cover	XZA3002
NSP	9	Polyethylene Bag ($0.03 \times 230 \times 340$)	Z21-038
	10	Packing Sheet	AHG7069
	11	Left Pad R4	XHA3024
	12	Right Pad R4	XHA3025
	13	Packing Case 710/KC	XHD3146

(2) CONTRAST TABLE

VSX-D710S/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			VSX-D710S /KUXJI	VSX-D710S /KCXJI	
	6	Operating Instructions (French)	Not used	XRC3030	

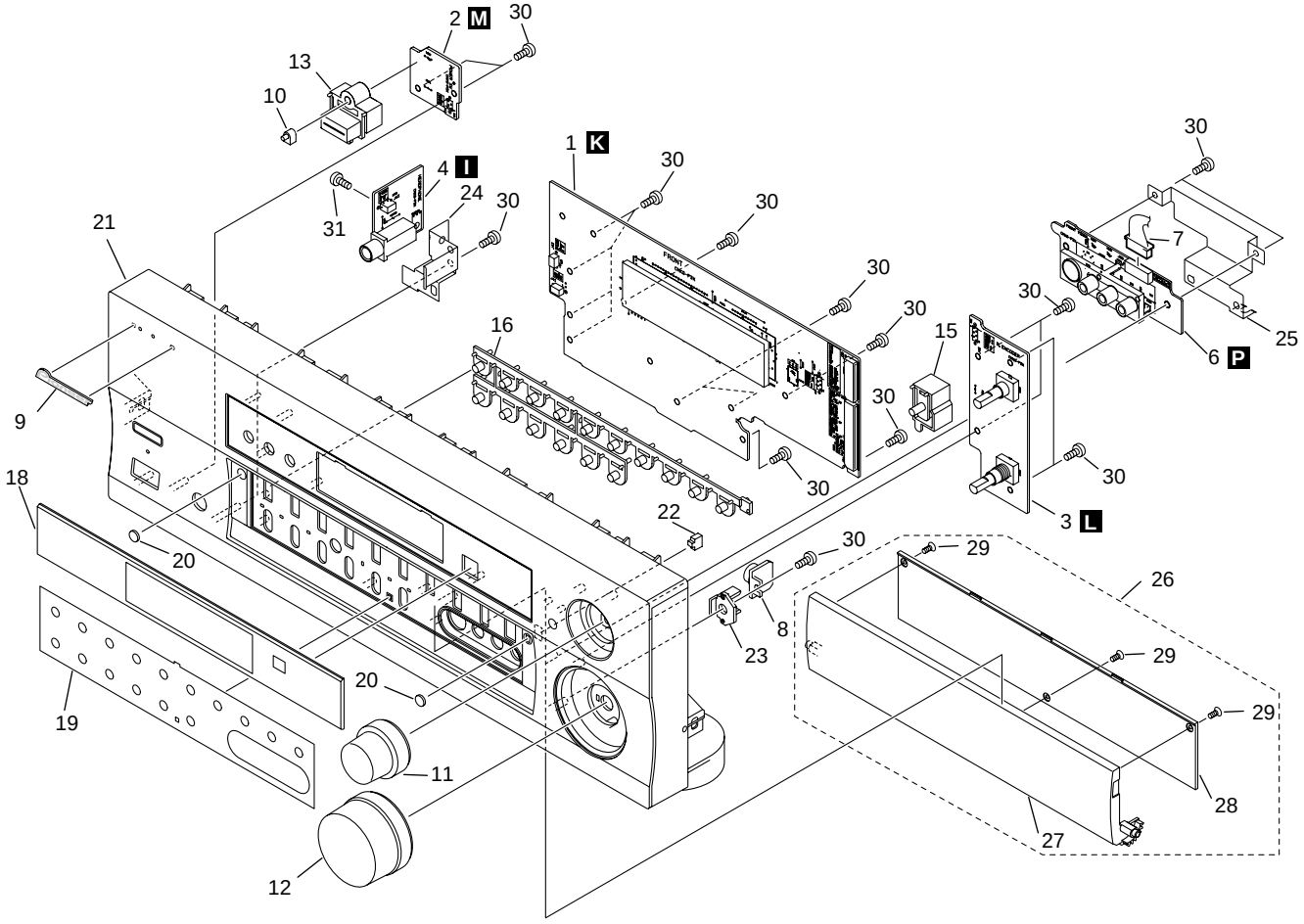
2.2 EXTERIOR SECTION



● EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	D.D & INPUT Assy	XWX3026
	2	AMP&PRIMARY Assy	XWZ3376
	3	REGULATOR Assy	XWZ3385
	4	AMP INPUT Assy	XWZ3388
	5	TRANS 2 Assy	XWZ3391
	6	VIDEO&6CH IN Assy	XWZ3334
	7	DIGITAL IN Assy	XWZ3361
	8	S. VIDEO Assy	XWZ3362
	9	COMPORNENT Assy	XWZ3365
	10	BOARD TO BOARD Assy	XWZ3370
	11	FM/AM TUNER Unit	AXX7046
NSP	12	TRANS 1 Assy	XWZ3390
NSP	13	TRANS 3 Assy	XWZ3392
	14	• • • • • •	
⚠	15	Power Transformer (AC120V)	XTS3043
⚠	16	Fuse (FU1 : 10A)	REK1087
⚠	17	Fuse (FU2 : 8A)	REK1086
⚠	18	Fuse (FU701 : 10A)	REK1087
	19	Strain Relief	CM-22C
⚠	20	AC Power Cord	VDG1075
	21	FFC (J32 : 19P/30V)	XDD3054
		(D.D & INPUT CN103 ↔ FRONT CN401)	
	22	FFC (J31 : 31P/30V)	XDD3055
		(D.D & INPUT CN102 ↔ FRONT CN402)	
	23	FFC (J38 : 5P/30V)	XDD3056
		(BOARD TO BOARD CN392 ↔ COMPORNENT CN5501)	
	24	FFC (J36 : 22P/30V)	XDD3057
		(REGULATOR CN801 ↔ AMP&PRIMARY CN53)	
	25	FFC (J37 : 6P/30V)	XDD3058
		(D.D & INPUT CN1501 ↔ DIGITAL IN CN1901)	
	26	FFC (J34 : 13P/30V)	XDD3059
		(D.D & INPUT CN105 ↔ FM/AM TUNER UNIT)	
	27	FFC (J33 : 14P/30V)	XDD3060
		(D.D & INPUT CN104 ↔ VIDEO&6CH IN CN303)	
	28	FFC (J35 : 17P/30V)	XDD3072
		(D.D & INPUT CN106 ↔ AMP INPUT CN254)	
	29	Rubber Sheet	AEB1111
NSP	30	Under Base 409	ANA7094
	31	PCB Angle	ANG7253
	32	Shield R3	ANG7277
NSP	33	Heat Sink Assy 0.4	ANH7112
	34	Heat Sink Angle F	ANG7251
	35	Heat Sink Angle R	ANG7252
NSP	36	Heat Sink 0.4	ANH7109
	37	Foot Assy	REC1263
	38	Top Cover R4UL	XME3004
	39	Rear Panel 710/KC	XNC3076
	40	Bonnet Case	XZN3111
	41	Screw	ABA7043
	42	Push Rivet	AEC7025
	43	PCB Mold	AMR2533
	44	Screw	BBZ30P080FMC
	45	Screw	BBZ30P200FMC
	46	Screw	FBT40P080FZK

2.3 FRONT PANEL SECTION



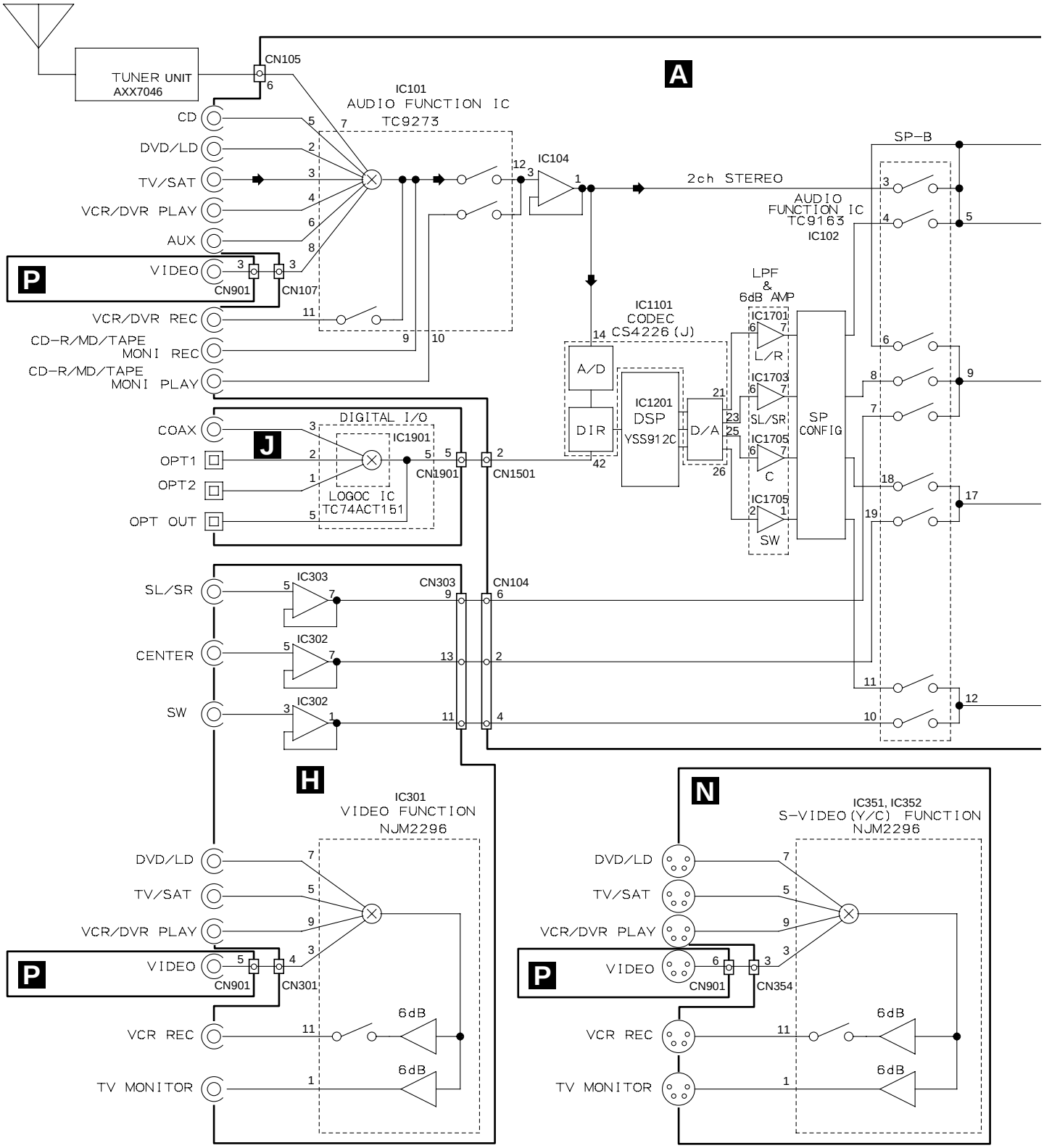
● FRONT PANEL SECTION PARTS LIST

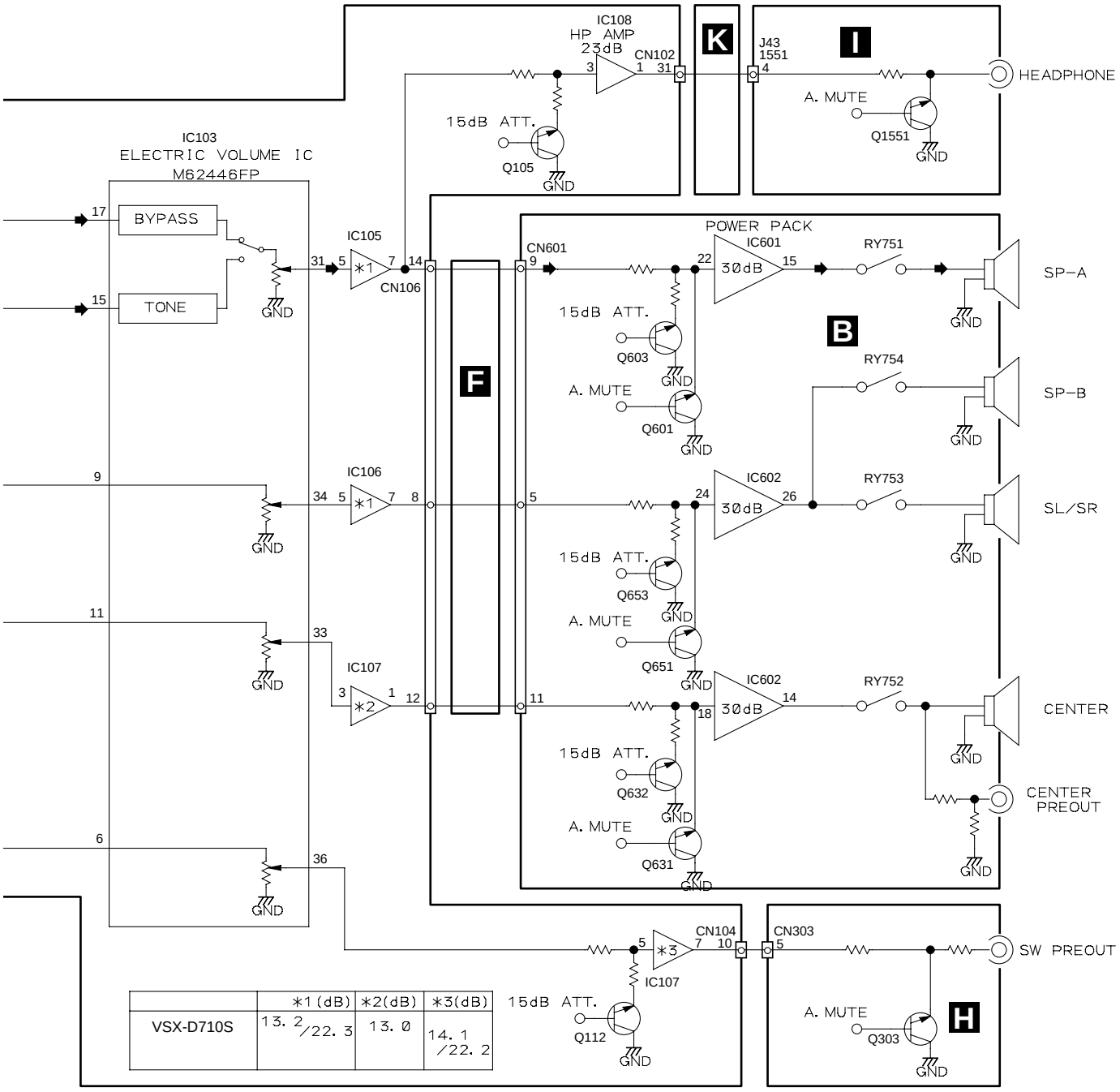
Mark	No.	Description	Part No.
	1	FRONT Assy	XWZ3340
	2	POWER SW Assy	XWZ3352
	3	R. ENCODER Assy	XWZ3353
	4	H.P. Assy	XWZ3356
	5	• • • • • •	
	6	FRONT VIDEO Assy	XWZ3359
NSP	7	8P Shield Cable	XDX3012
	8	Damper Assy	AXA7052
	9	Name Plate	PAM1776
	10	LED Lens	PNW2019
	11	Select Knob R4B	XAB3008
	12	Volume Knob R4B	XAB3011
	13	Power Button R4B	XAD3062
	14	• • • • • •	
	15	Jog Button R4B	XAD3065
	16	Door Button R4B	XAD3070
	17	• • • • • •	
	18	Display Panel O/KC	XAK3172
	19	Button Cover R4UL	XAK3252
	20	Cushion R4B	XED3001
	21	Front Panel 710/KC	XMB3032
	22	Magnet 35	AMF7007
	23	Holder L R4	XMR3016
	24	Earth Plate A R4	XNG3044
	25	Earth Plate B R4	XNG3045
NSP	26	Door Assy R4B	XXG3068
	27	Door R4B	XAK3173
	28	Door Cover R4B	XAK3175
	29	Screw	XBA3001
	30	Screw	PPZ30P080FMC
	31	Screw	BBZ30P080FMC

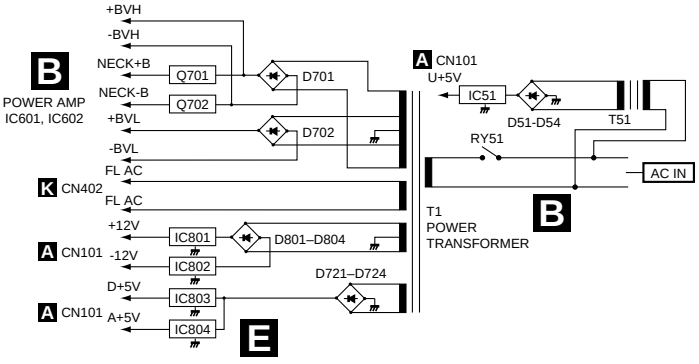
This page was intentionally left blank.

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

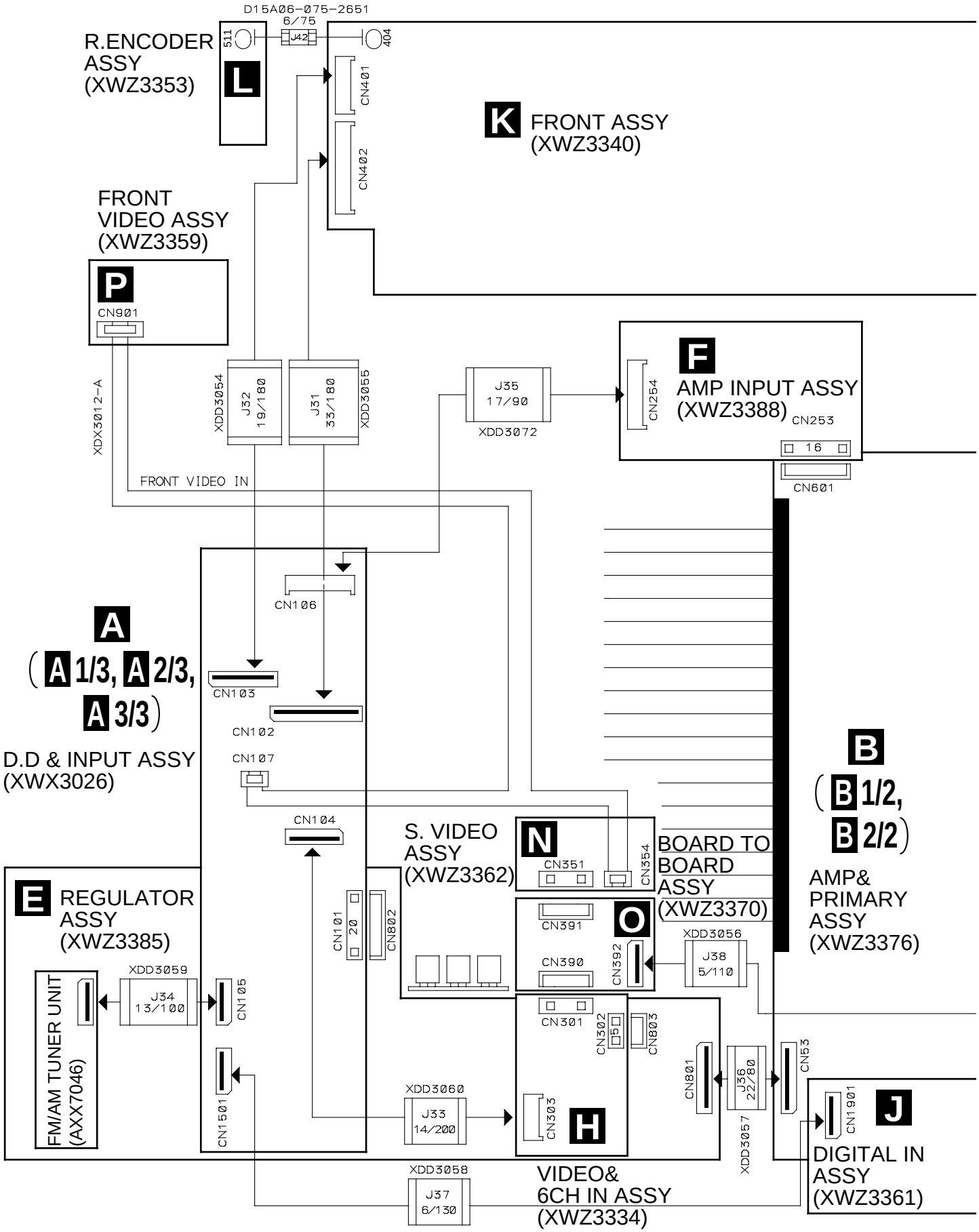
3.1 BLOCK DIAGRAM



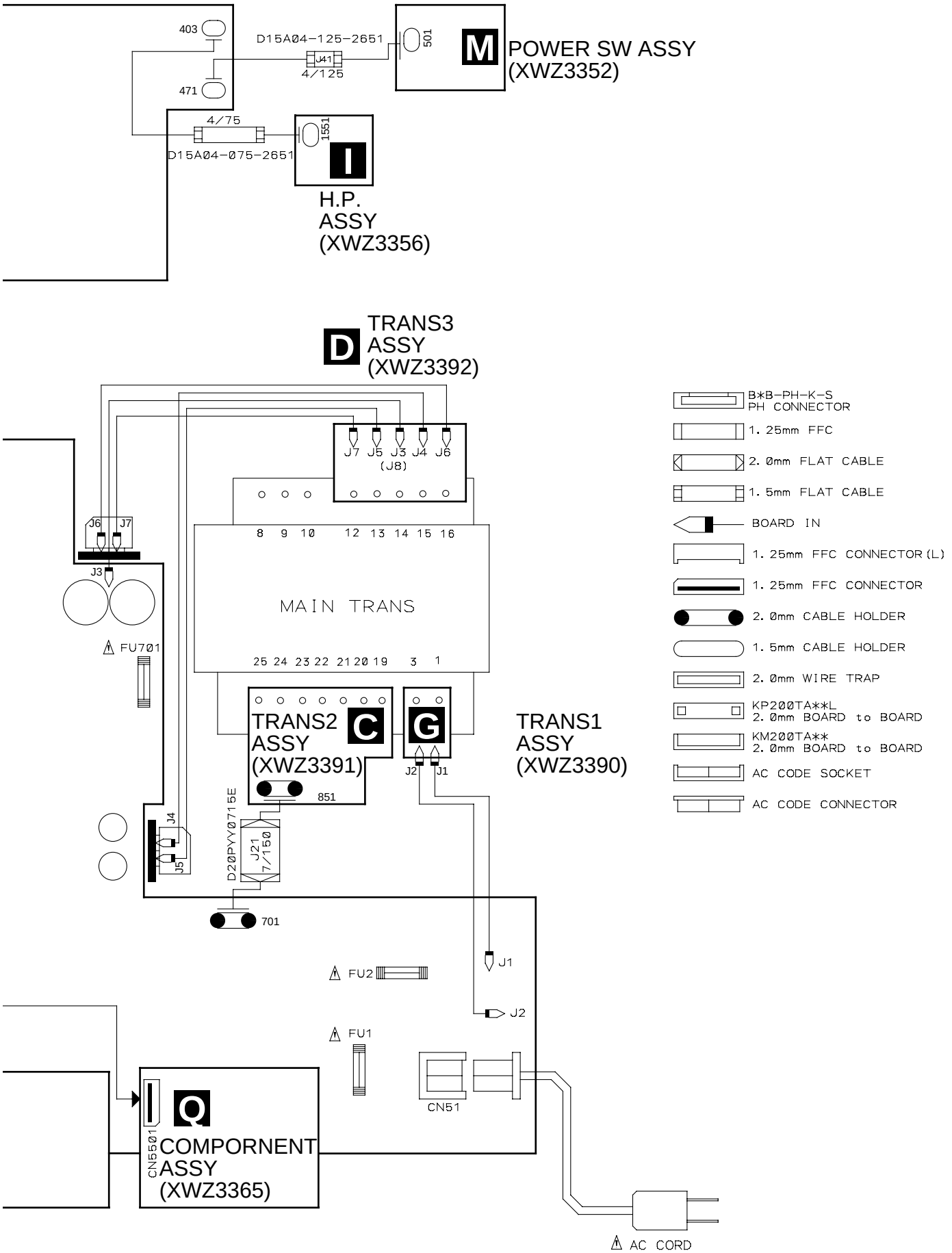

IC108
HP AMP
23dB
CN102
K
J43
1551
I
HEADPHONE
A. MUTE
Q1551
GND
15dB ATT.
Q105
IC103
ELECTRIC VOLUME IC
M62446FP
BYPASS
TONE
IC105
CN106
POWER PACK
CN601
IC601
30dB
RY751
SP-A
F
B
15dB ATT.
Q603
A. MUTE
Q601
RY754
SP-B
IC106
IC602
RY753
SL/SR
Q653
Q651
IC107
RY752
CENTER
CENTER
PREOUT
Q632
Q631
CN104
CN303
SW PREOUT
H
Q303
Q112
VSX-D710S
∗1(dB)
∗2(dB)
∗3(dB)
13.2/22.3
13.0
14.1/22.2


+BVH
-BVH
NECK+B
NECK-B
+BVL
-BVL
FL AC
Q701
Q702
D701
D702
B
POWER AMP
IC601, IC602
K CN402
A CN101
+12V
-12V
D+5V
A+5V
IC801
IC802
IC803
IC804
D801–D804
D721–D724
E
A CN101
U+5V
IC51
D51-D54
T51
RY51
AC IN
T1
POWER
TRANSFORMER

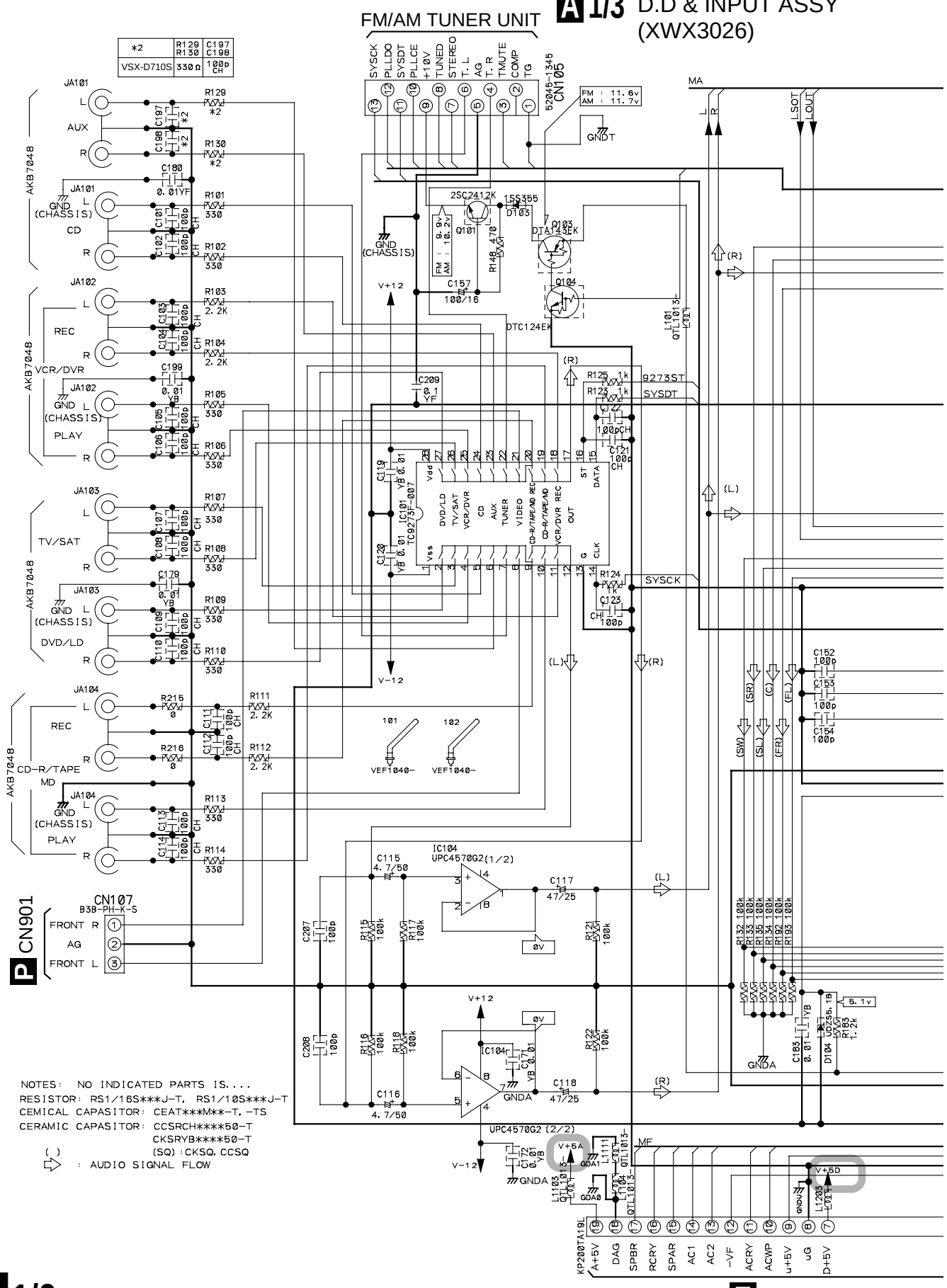
3.2 OVERALL WIRING CONNECTION DIAGRAM



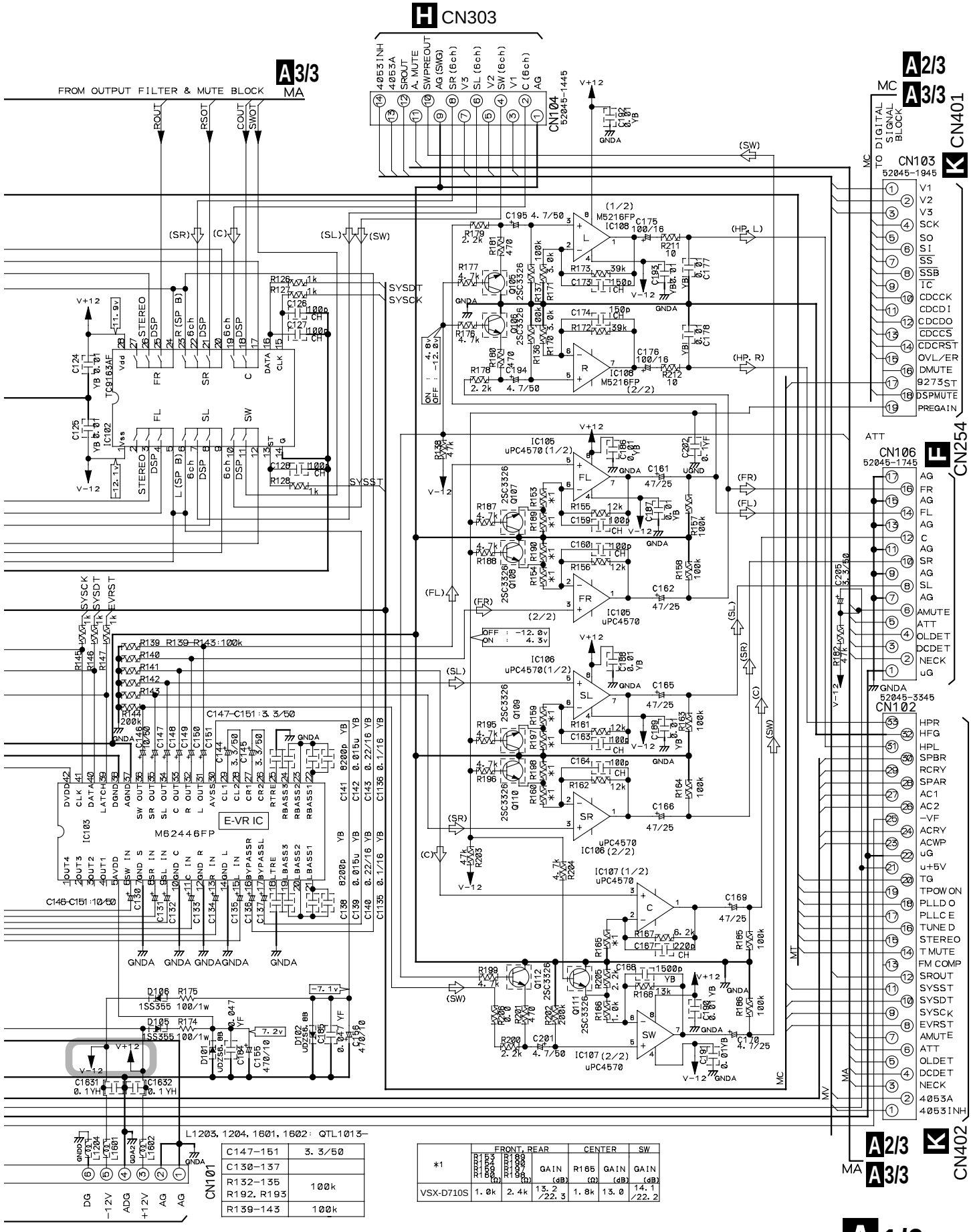
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 D.D & INPUT (1/3) ASSY



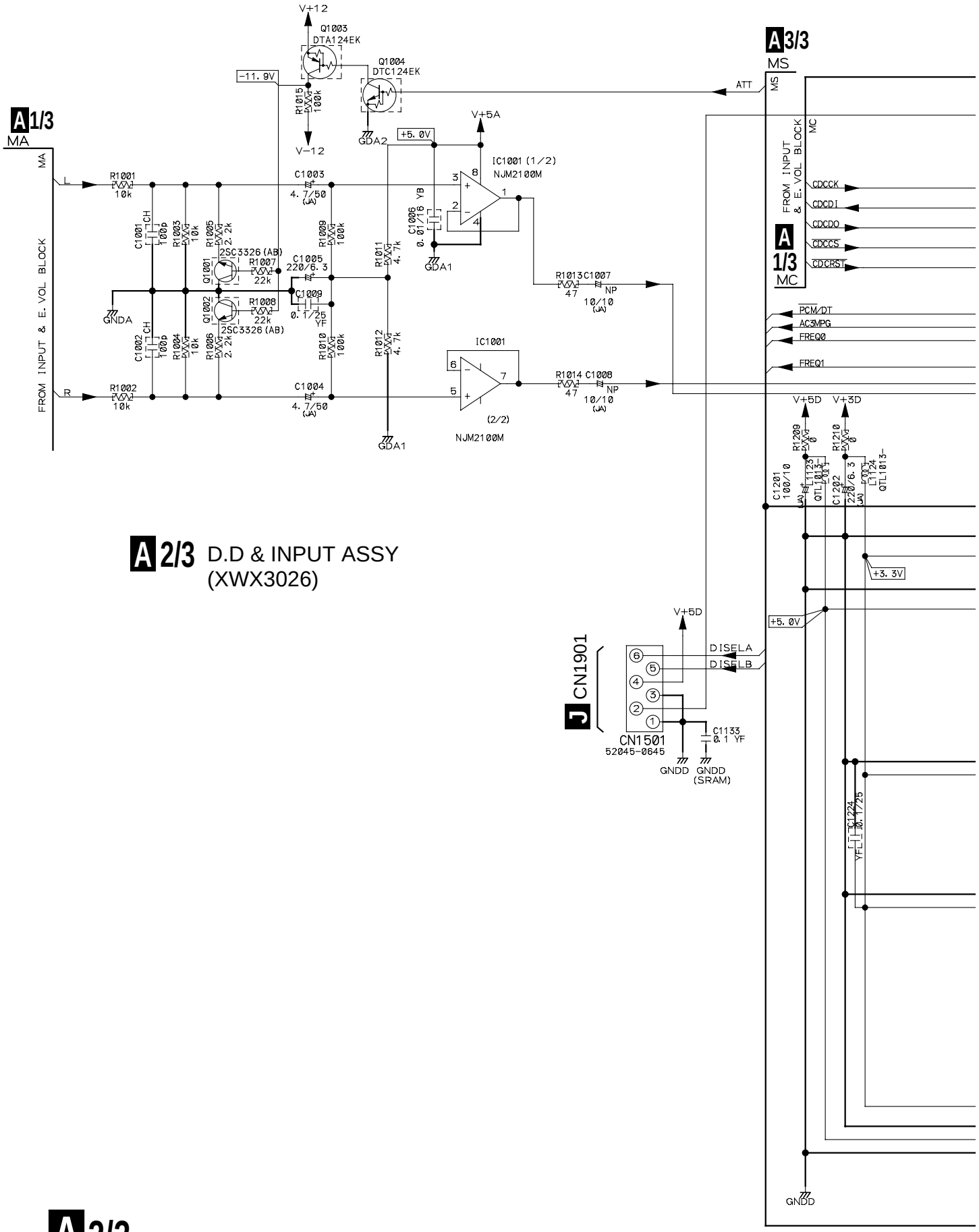
: The power supply is shown with the marked box.



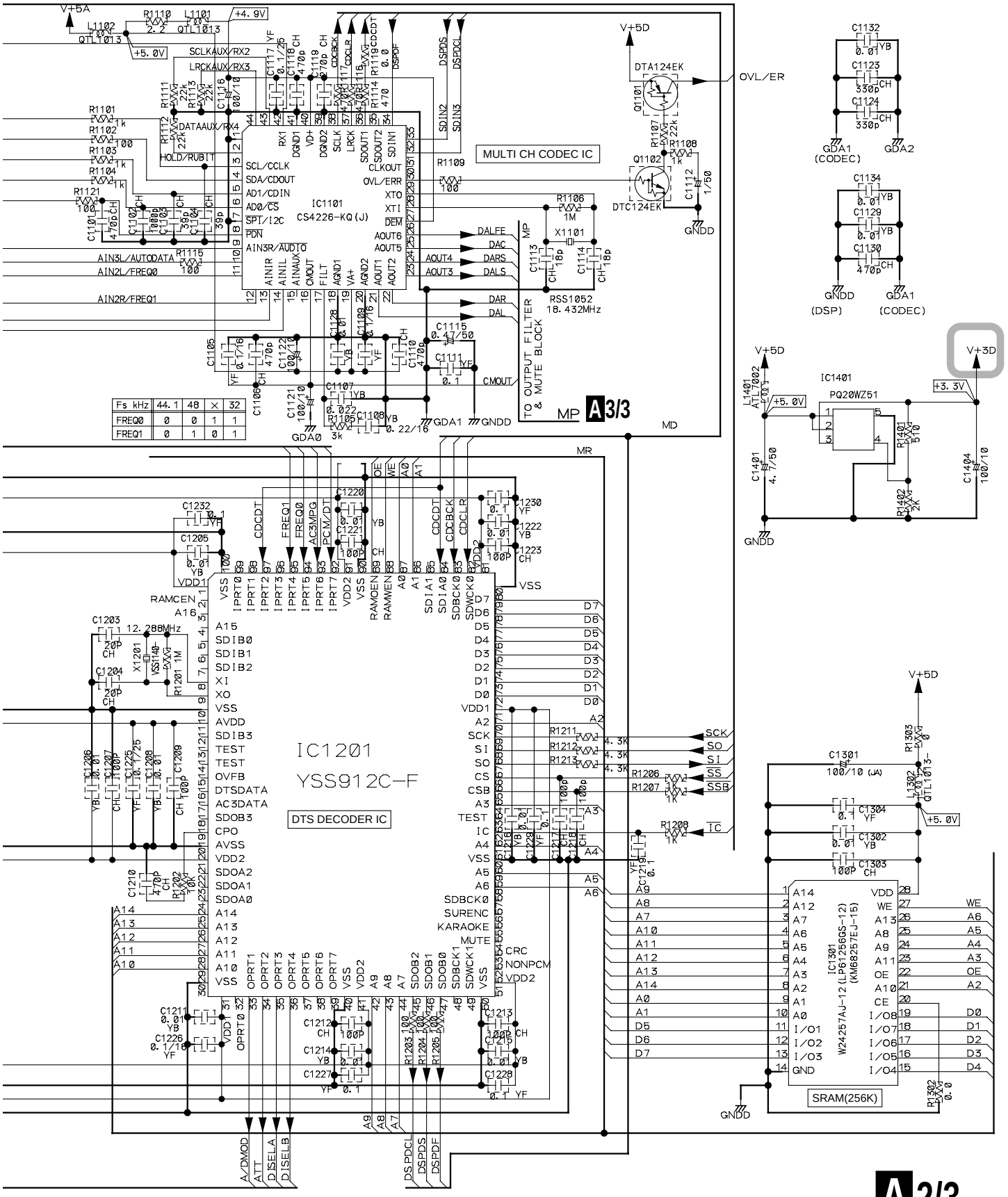
C147–151	3.3/50
C130–137	
R132–135 R192, R193	100k
R139–143	100k

*1	FRONT, REAR			CENTER		SW
	R132 R133 R134 R135 R192 R193 (Ω)	R136 R137 R138 R139 (Ω)	GAIN (dB)	R165 (Ω)	GAIN (dB)	GAIN (dB)
VSX-D710S	1.0k	2.4k	13.2 /22.3	1.8k	13.0	14.1 /22.2

3.4 D.D & INPUT ASSY (2/3)

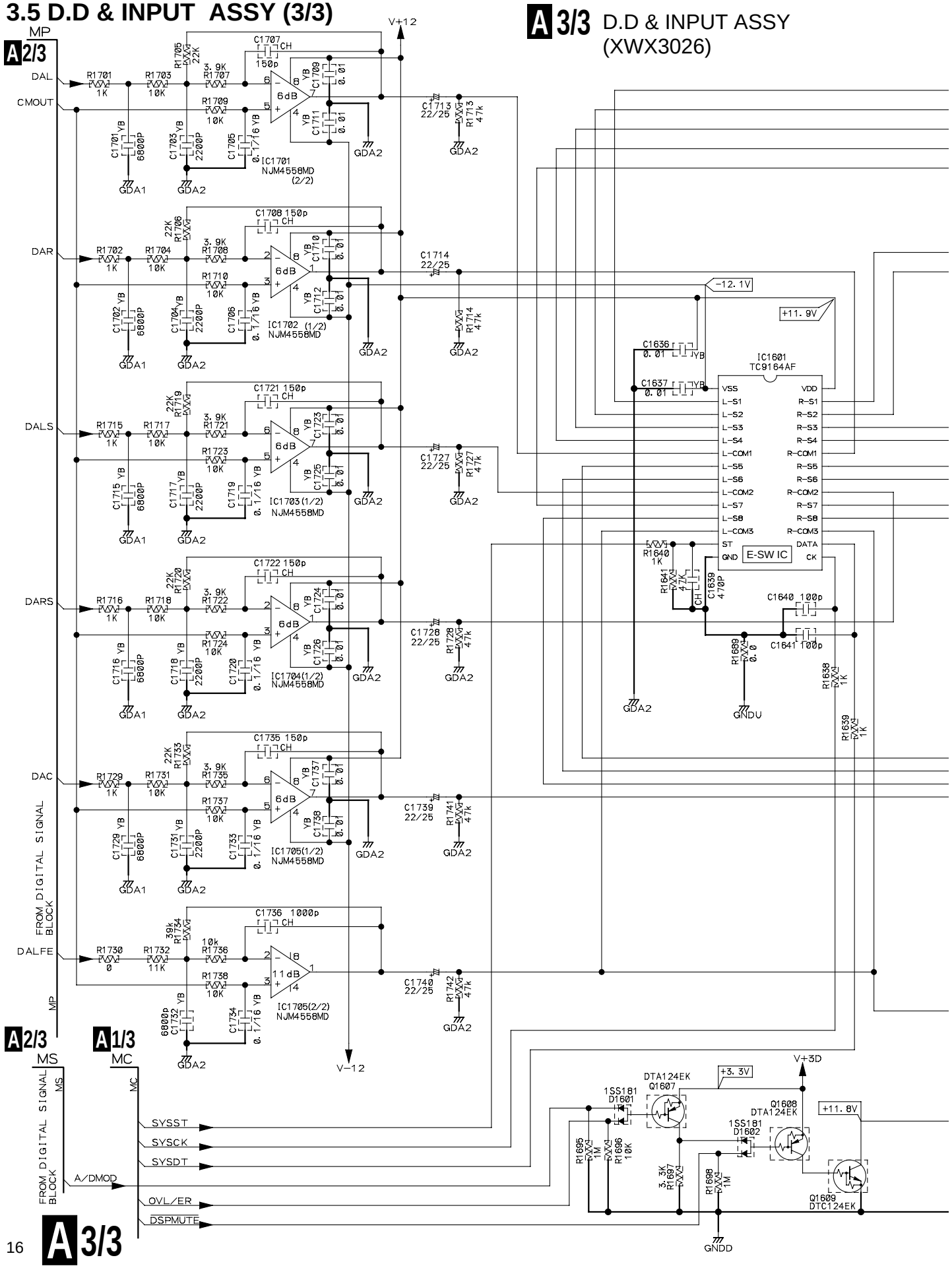


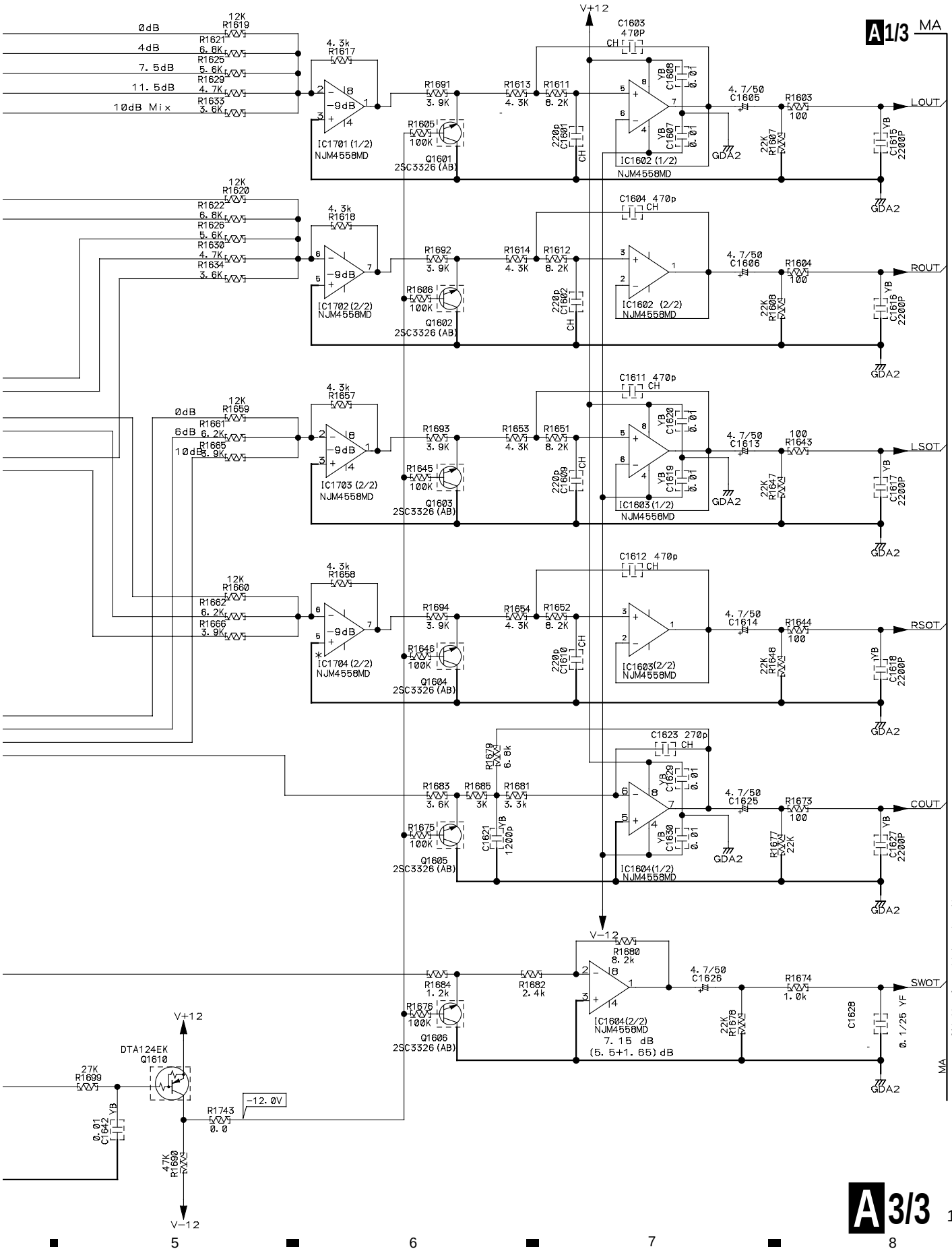
: The power supply is shown with the marked box.



3.5 D.D & INPUT ASSY (3/3)

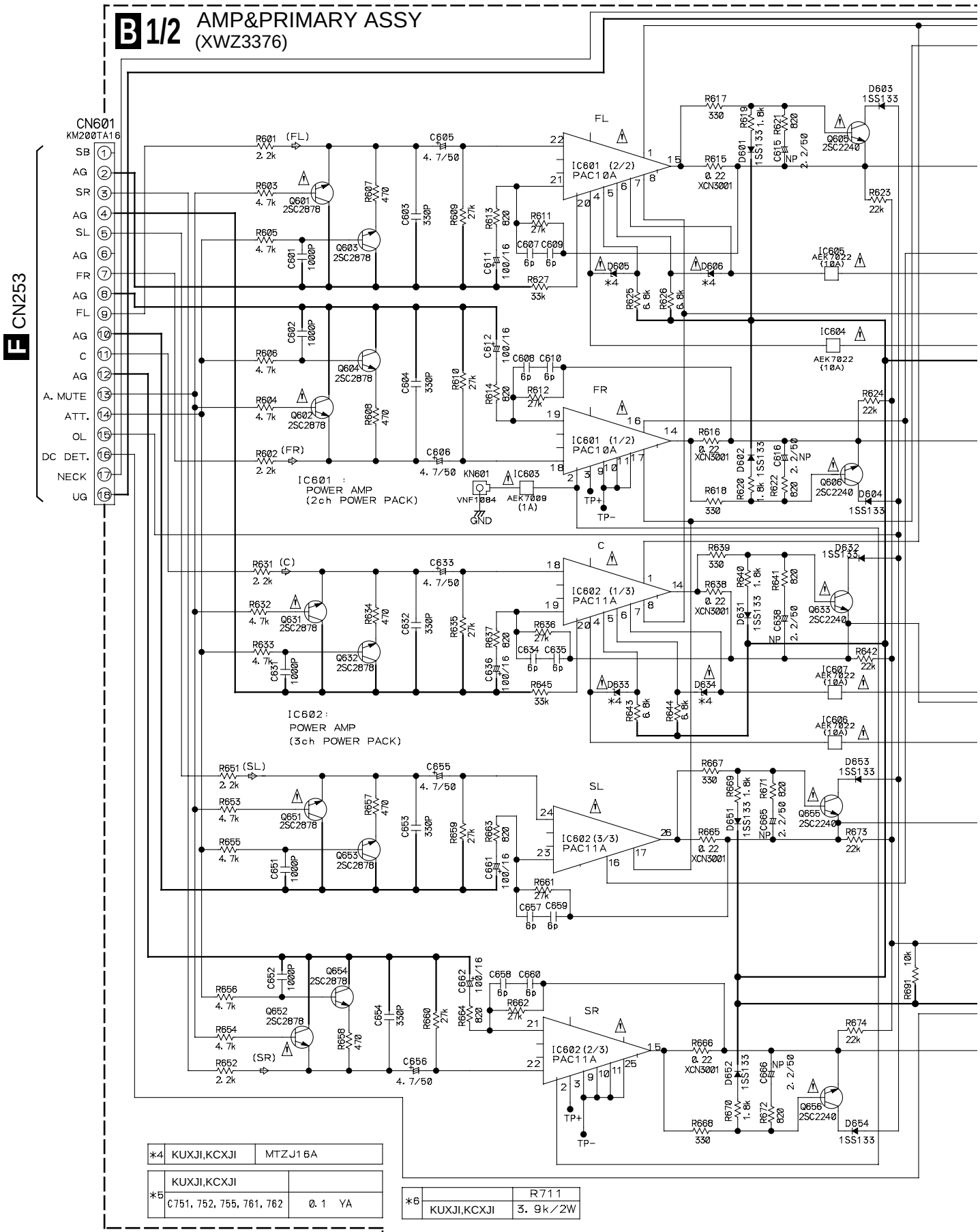
A 3/3 D.D & INPUT ASSY (XWX3026)




A1/3 MA
V+12
V-12
0dB
4dB
7.5dB
11.5dB
10dB Mix
12K R1619
R1621 6.8K
R1625 5.6K
R1629 4.7K
R1633 3.6K
4.3k R1617
IC1701(1/2) NJM4558MD
R1691 3.9K
R1605 100K
Q1601 2SC3326(AB)
R1613 4.3K
R1611 8.2K
C1603 470P CH
220p C1601 CH
IC1602(1/2) NJM4558MD
4.7/50 C1605
R1603 100
LOUT
22K R1607
C1615 2200P YB
GDA2
12K R1620
R1622 6.8K
R1626 5.6K
R1630 4.7K
R1634 3.6K
4.3k R1618
IC1702(2/2) NJM4558MD
R1692 3.9K
R1606 100K
Q1602 2SC3326(AB)
R1614 4.3K
R1612 8.2K
C1604 470p CH
220p C1602 CH
IC1602(2/2) NJM4558MD
4.7/50 C1606
R1604 100
ROUT
22K R1608
C1616 2200P YB
GDA2
12K R1659
0dB
6dB
10dB
R1661 6.2K
R1665 3.9K
4.3k R1657
IC1703(2/2) NJM4558MD
R1693 3.9K
R1645 100K
Q1603 2SC3326(AB)
R1653 4.3K
R1651 8.2K
C1611 470p CH
220p C1609 CH
IC1603(1/2) NJM4558MD
4.7/50 C1613
100 R1643
LSOT
22K R1647
C1617 2200P YB
GDA2
12K R1660
R1662 6.2K
R1666 3.9K
4.3k R1658
IC1704(2/2) NJM4558MD
R1694 3.9K
R1646 100K
Q1604 2SC3326(AB)
R1654 4.3K
R1652 8.2K
C1612 470p CH
220p C1610 CH
IC1603(2/2) NJM4558MD
4.7/50 C1614
R1644 100
RSOT
22K R1648
C1618 2200P YB
GDA2
C1623 270p CH
R1679 6.8k
R1683 3.6K
R1685 3K
R1681 3.3k
R1675 100K
C1621 1200p YB
Q1605 2SC3326(AB)
IC1604(1/2) NJM4558MD
4.7/50 C1625
R1673 100
COUT
R1677 22K
C1627 2200P YB
GDA2
R1680 8.2k
R1684 1.2k
R1682 2.4k
R1676 100K
Q1606 2SC3326(AB)
IC1604(2/2) NJM4558MD
7.15 dB
(5.5+1.65) dB
4.7/50 C1626
R1674 1.0k
SWOT
22K R1678
C1628 0.1/25 YF
GDA2
DTA124EK Q1610
27K R1699
R1743 0.0
-12.0V
0.01 C1642 YB
47K R1690
MA TO INPUT & E. VOL BLOCK

3.6 AMP&PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

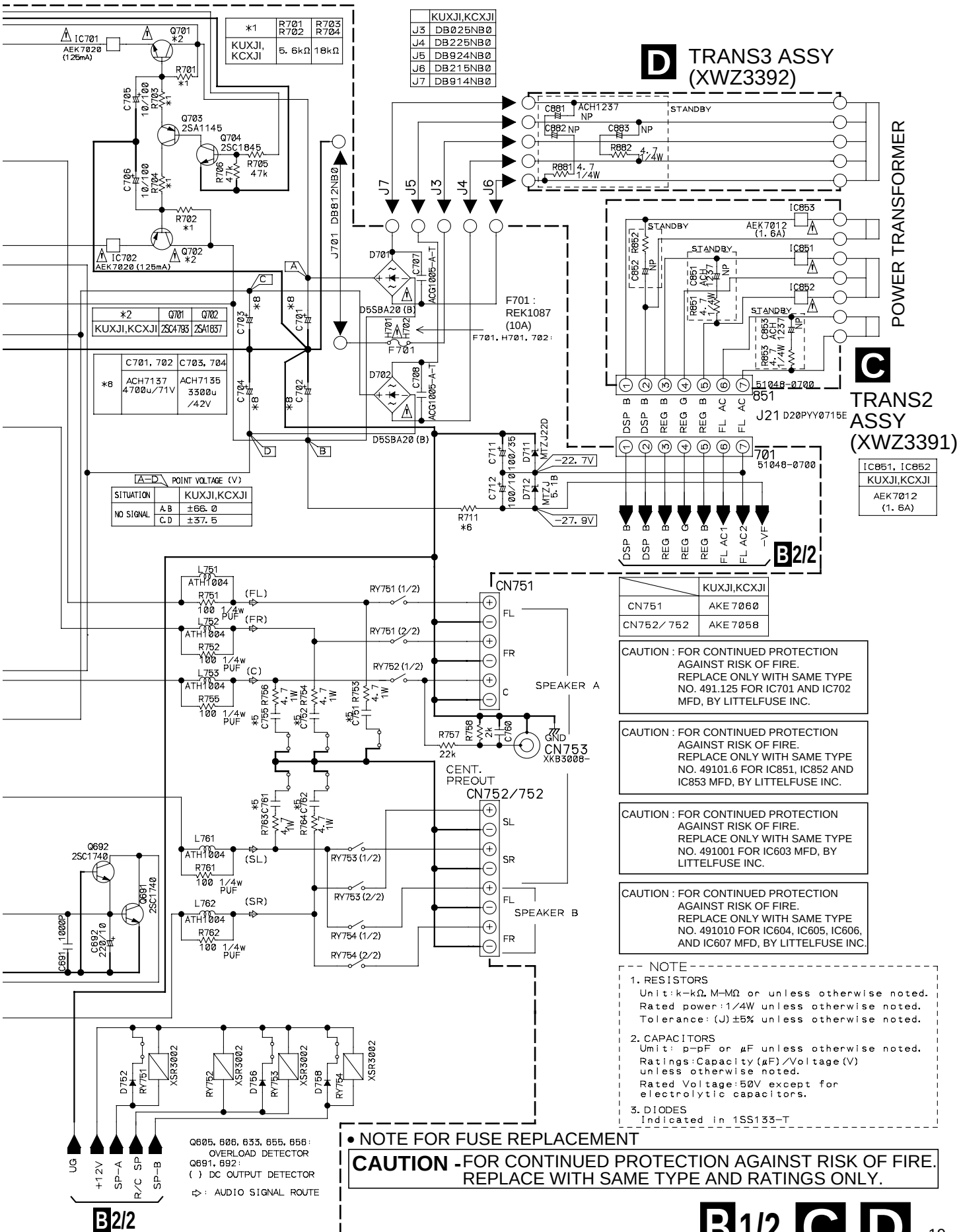
B 1/2 AMP&PRIMARY ASSY
(XWZ3376)



*4	KUXJI,KCXJI	MTZJ16A

*5	KUXJI,KCXJI	
	C751, 752, 755, 761, 762	0.1 YA

*6		R711
	KUXJI,KCXJI	3.9k/2W



	KUXJI,KCXJI
J3	DB025NB0
J4	DB225NB0
J5	DB924NB0
J6	DB215NB0
J7	DB914NB0

*1	R701 R702	R703 R704
KUXJI, KCXJI	5.6kΩ	18kΩ

*2	Q701	Q702
KUXJI,KCXJI	2SC4793	2SA1837

*8	C701, 702	C703, 704
	ACH7137 4700u/71V	ACH7135 3300u /42V

A–D POINT VOLTAGE (V)

SITUATION		KUXJI,KCXJI
NO SIGNAL	A-B	±66.0
	C-D	±37.5

	KUXJI,KCXJI
CN751	AKE7060
CN752/752	AKE7058

IC851, IC852
KUXJI,KCXJI
AEK7012 (1.6A)

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.125 FOR IC701 AND IC702 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 FOR IC851, IC852 AND IC853 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.

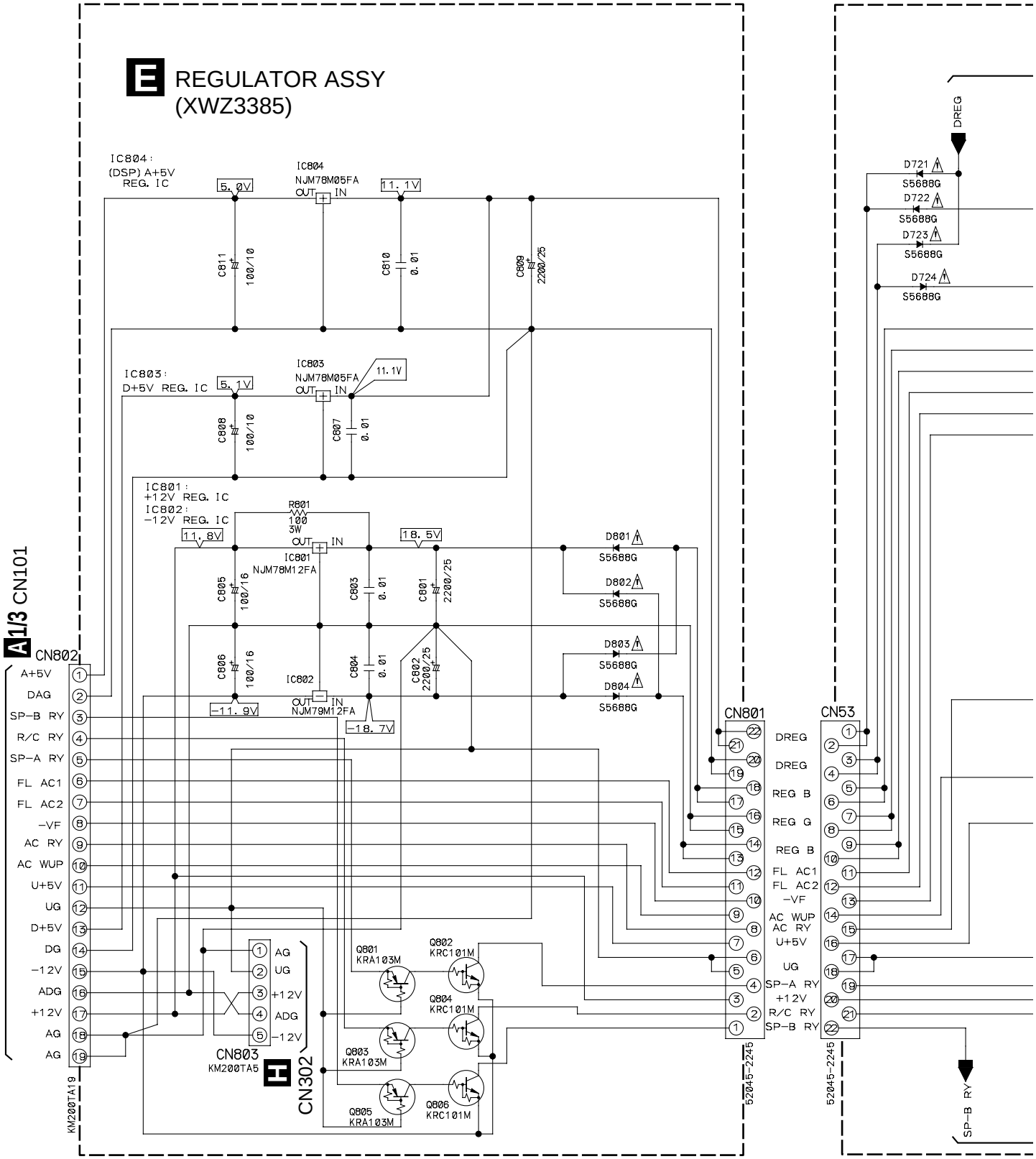
NOTE

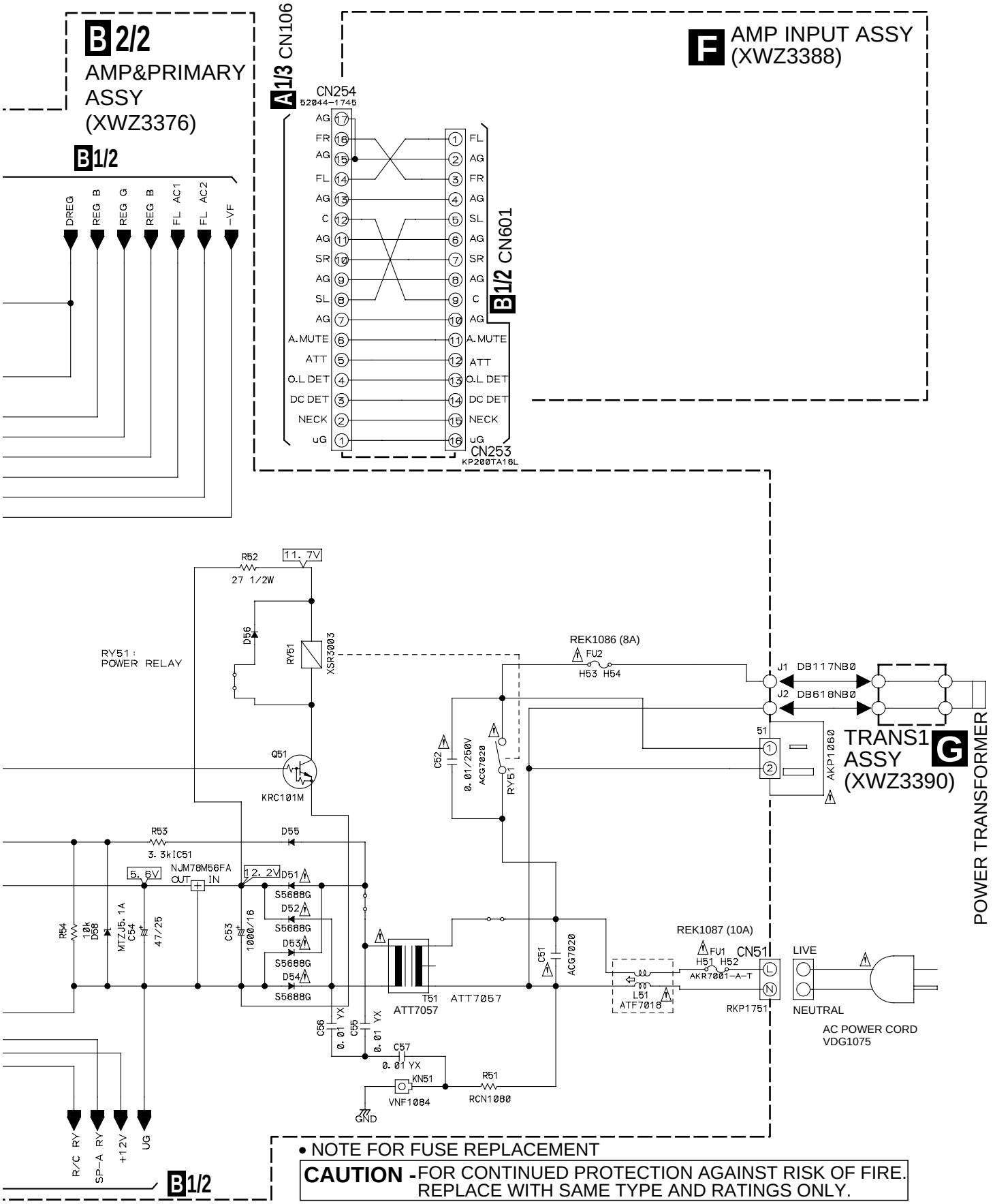
1. RESISTORS
   Unit: k-kΩ, M-MΩ or unless otherwise noted.
   Rated power: 1/4W unless otherwise noted.
   Tolerance: (J) ±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: Capacity (μF) / Voltage (V) unless otherwise noted.
   Rated Voltage: 50V except for electrolytic capacitors.
3. DIODES
   Indicated in 1SS133-T

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

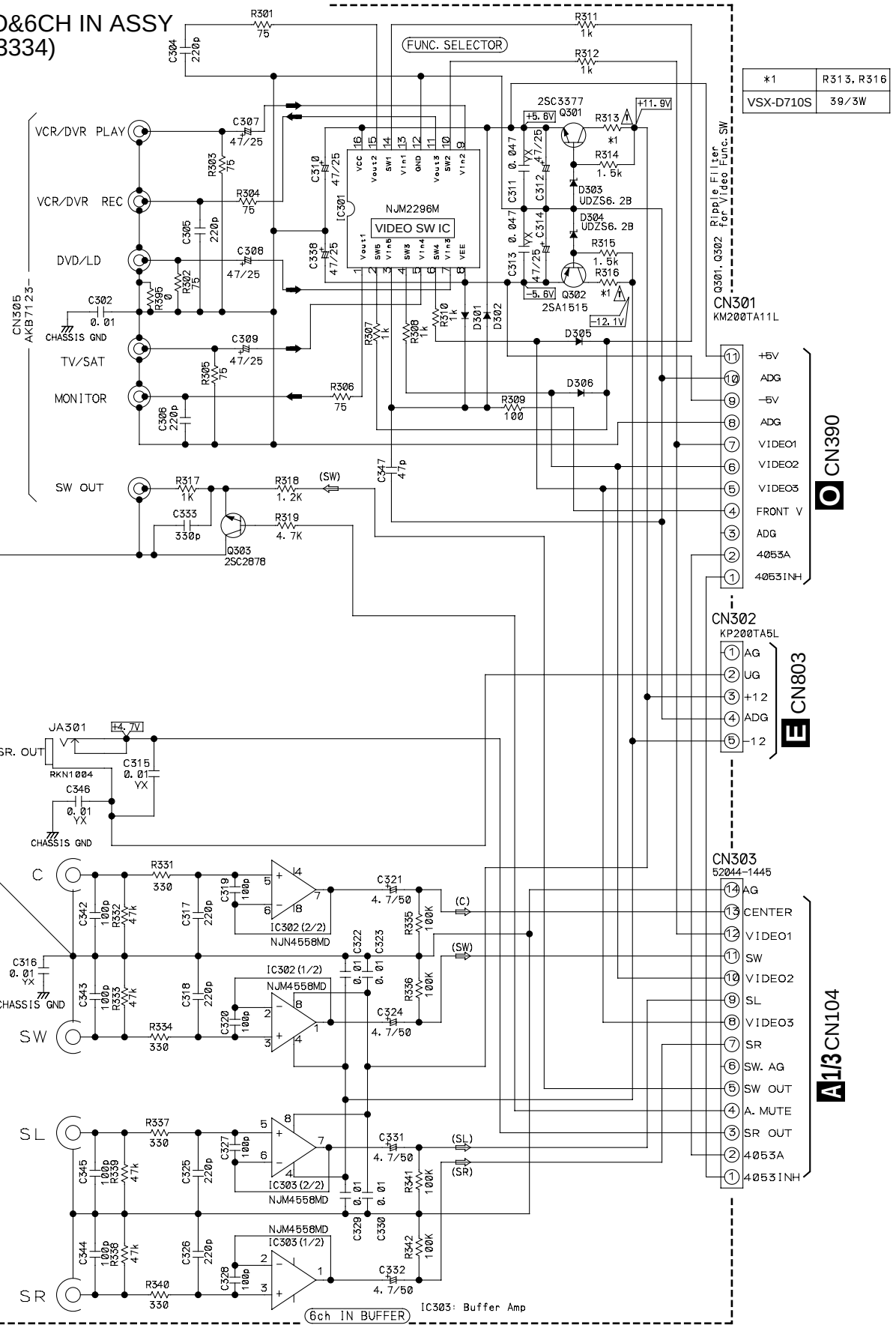
3.7 AMP&PRIMARY (2/2), REGULATOR, AMP INPUT and TRANS1 ASSYS




B 2/2
AMP&PRIMARY ASSY (XWZ3376)
B1/2
DREG
REG B
REG G
REG B
FL AC1
FL AC2
-VF
A1/3 CN106
CN254
52044-1745
AG 17
FR 16
AG 15
FL 14
AG 13
C 12
AG 11
SR 10
AG 9
SL 8
AG 7
A.MUTE 6
ATT 5
O.L DET 4
DC DET 3
NECK 2
uG 1
1 FL
2 AG
3 FR
4 AG
5 SL
6 AG
7 SR
8 AG
9 C
10 AG
11 A.MUTE
12 ATT
13 O.L DET
14 DC DET
15 NECK
16 uG
B1/2 CN601
CN253
KP200TA16L
F AMP INPUT ASSY (XWZ3388)
R52
27 1/2W
11.7V
D56
RY51
XSR3003
RY51 : POWER RELAY
Q51
KRC101M
R53
3.3kIC51
5.6V
NJM78M56FA
OUT
IN
12.2V
D51
S5688G
D52
S5688G
D53
S5688G
D54
S5688G
D55
R54
10k
D58
MTZJ5.1A
C54
47/25
C53
1000/16
T51 ATT7057
ATT7057
C56
0.01 YX
C55
0.01 YX
C57
0.01 YX
KN51
VNF1084
R51
RCN1080
GND
C52
0.01/250V
ACG7020
RY51
REK1086 (8A)
FU2
H53 H54
J1 DB117NB0
J2 DB618NB0
51
AKP1060
TRANS1 ASSY (XWZ3390) G
POWER TRANSFORMER
C51
ACG7020
REK1087 (10A)
FU1
H51 H52
CN51
AKR7001-A-T
L51
ATF7018
RKP1751
LIVE
NEUTRAL
AC POWER CORD
VDG1075
R/C RY
SP-A RY
+12V
UG
B1/2
• NOTE FOR FUSE REPLACEMENT
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.8 VIDEO&6CH IN, H. P. and DIGITAL IN ASSYS

H VIDEO&6CH IN ASSY (XWZ3334)



*1	R313, R316
VSX-D710S	39/3W

NJM2296D control port status

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

VIN 2. VCR/DVR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT VIDEO

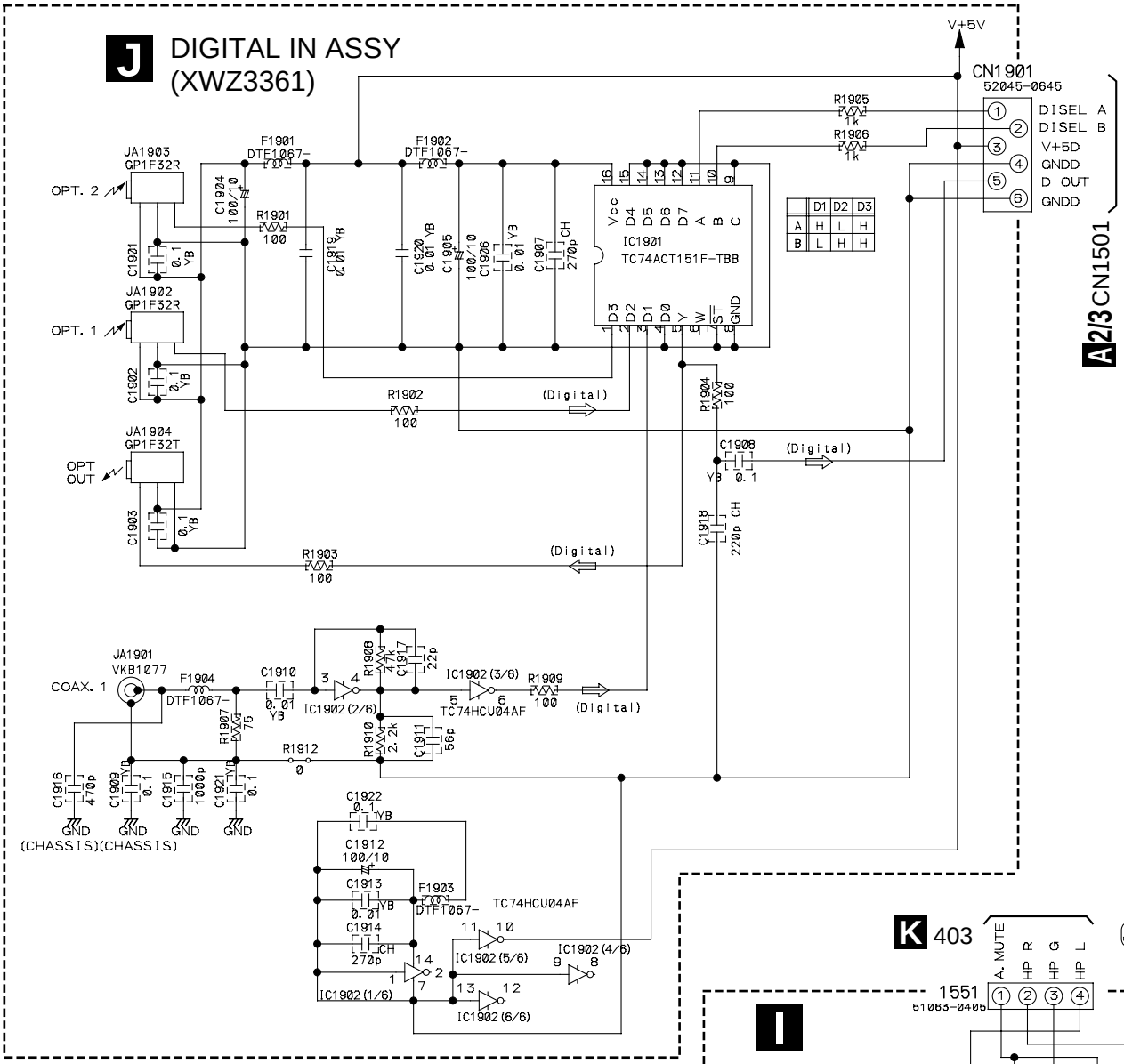
Vout1. MONITOR out
Vout2. MR out
Vout3. VCR/DVR out

-NOTE-

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/10W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
   Indicated in 1SS355-TRB

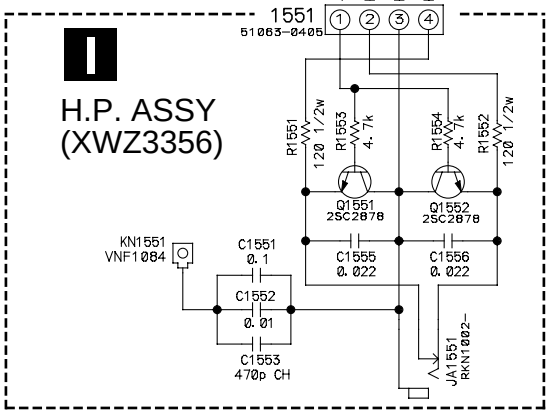
Video Signal Flow
Audio Signal Flow

J DIGITAL IN ASSY (XWZ3361)

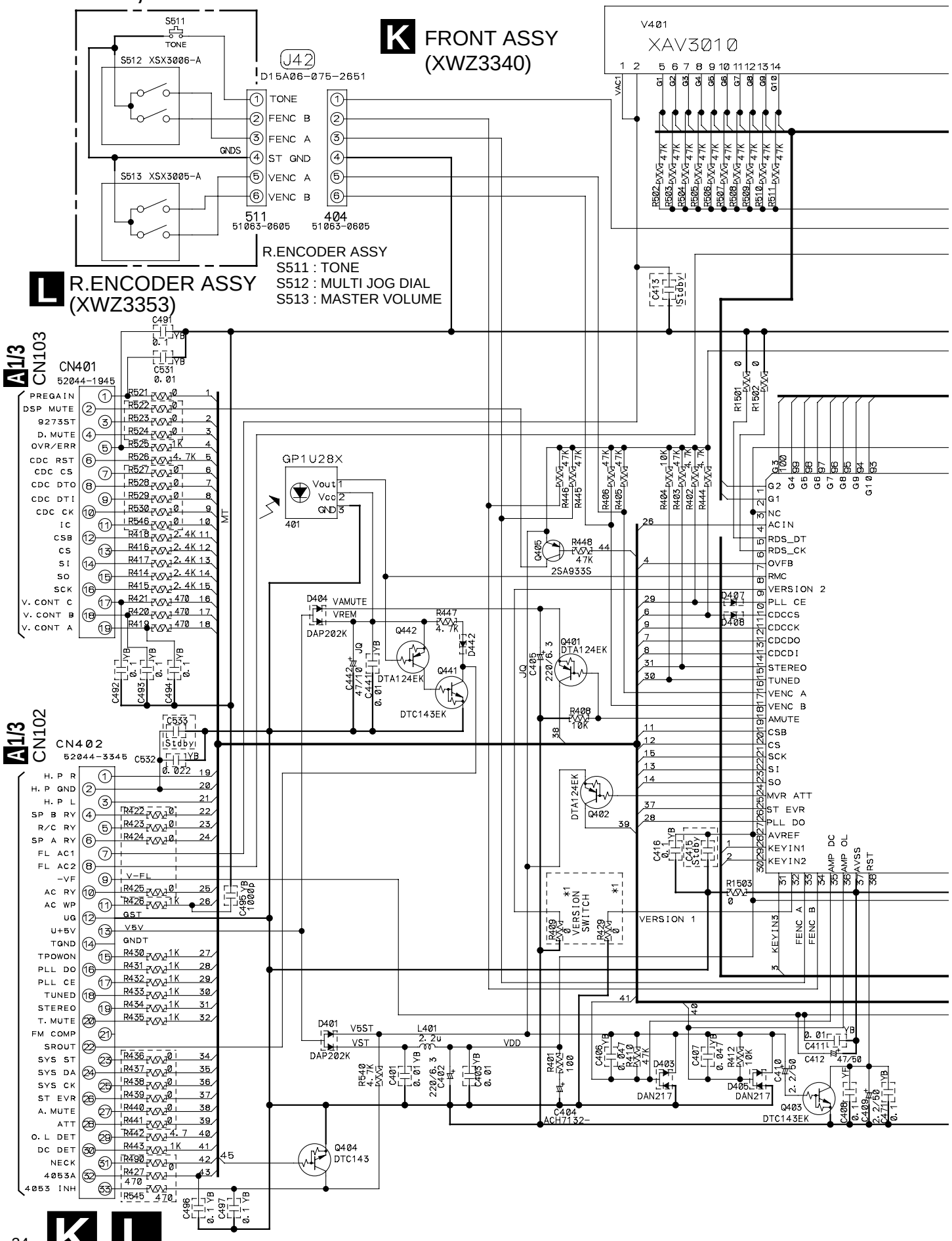


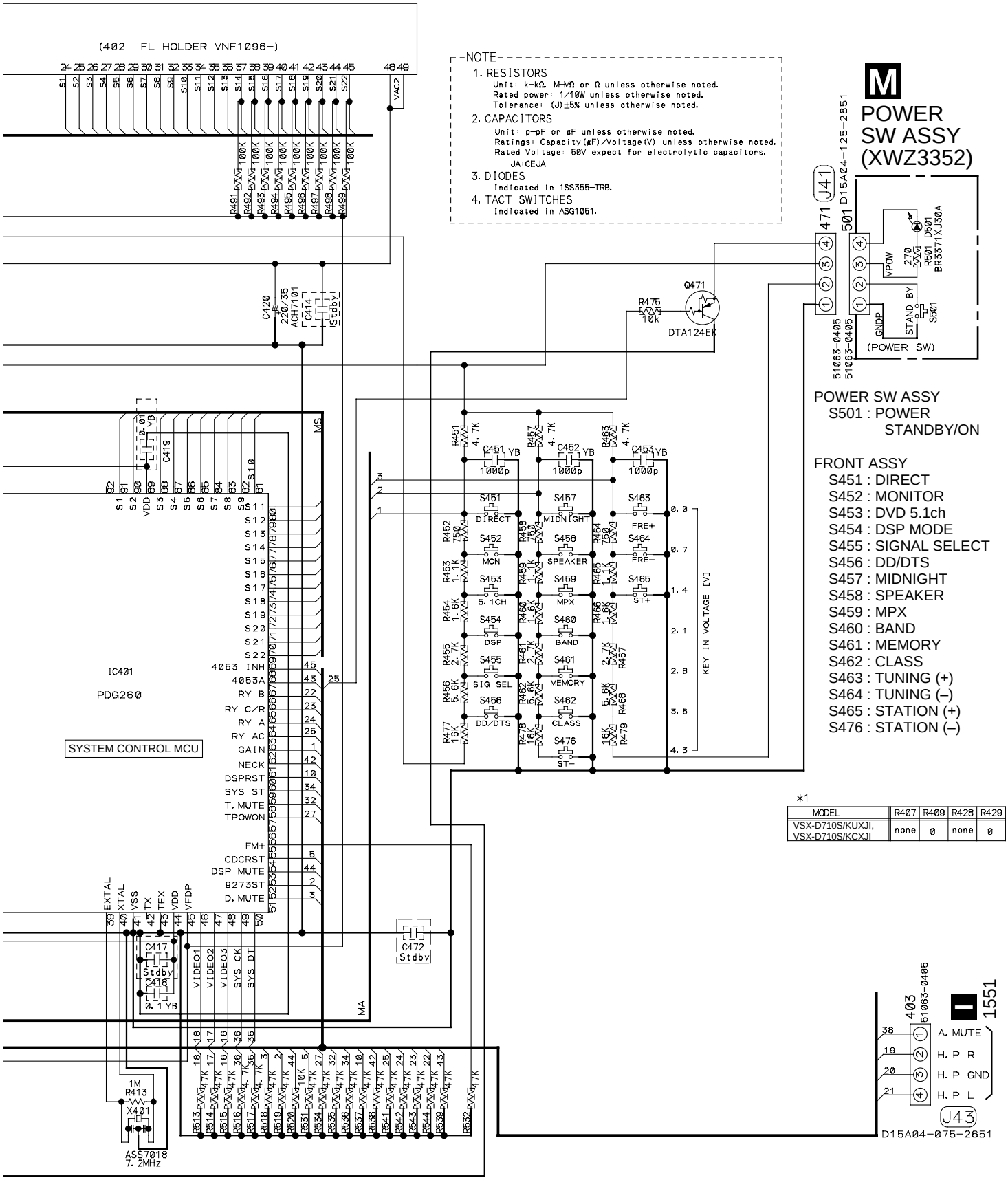
K 403

I H.P. ASSY (XWZ3356)



3.9 FRONT, R. ENCODER and POWER SW ASSYS




(402 FL HOLDER VNF1096-)
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JA:CEJA
3. DIODES
Indicated in 1SS355-TRB.
4. TACT SWITCHES
Indicated in ASG1051.
M
POWER
SW ASSY
(XWZ3352)
J41
D15A04-125-2651
VPOW
STAND BY
GNDP
(POWER SW)
POWER SW ASSY
S501 : POWER
STANDBY/ON
FRONT ASSY
S451 : DIRECT
S452 : MONITOR
S453 : DVD 5.1ch
S454 : DSP MODE
S455 : SIGNAL SELECT
S456 : DD/DTS
S457 : MIDNIGHT
S458 : SPEAKER
S459 : MPX
S460 : BAND
S461 : MEMORY
S462 : CLASS
S463 : TUNING (+)
S464 : TUNING (–)
S465 : STATION (+)
S476 : STATION (–)
KEY IN VOLTAGE [V]
IC401
PDG260
SYSTEM CONTROL MCU
*1
MODEL | R407 | R409 | R428 | R429
VSX-D710S/KUXJI, VSX-D710S/KCXJI | none | 0 | none | 0
J43
D15A04-075-2651
A. MUTE
H. P R
H. P GND
H. P L
ASS7018
7.2MHz

3.10 S. VIDEO, BOARD TO BOARD, FRONT VIDEO and COMPORNENT ASSYS

NJM2296D control port status

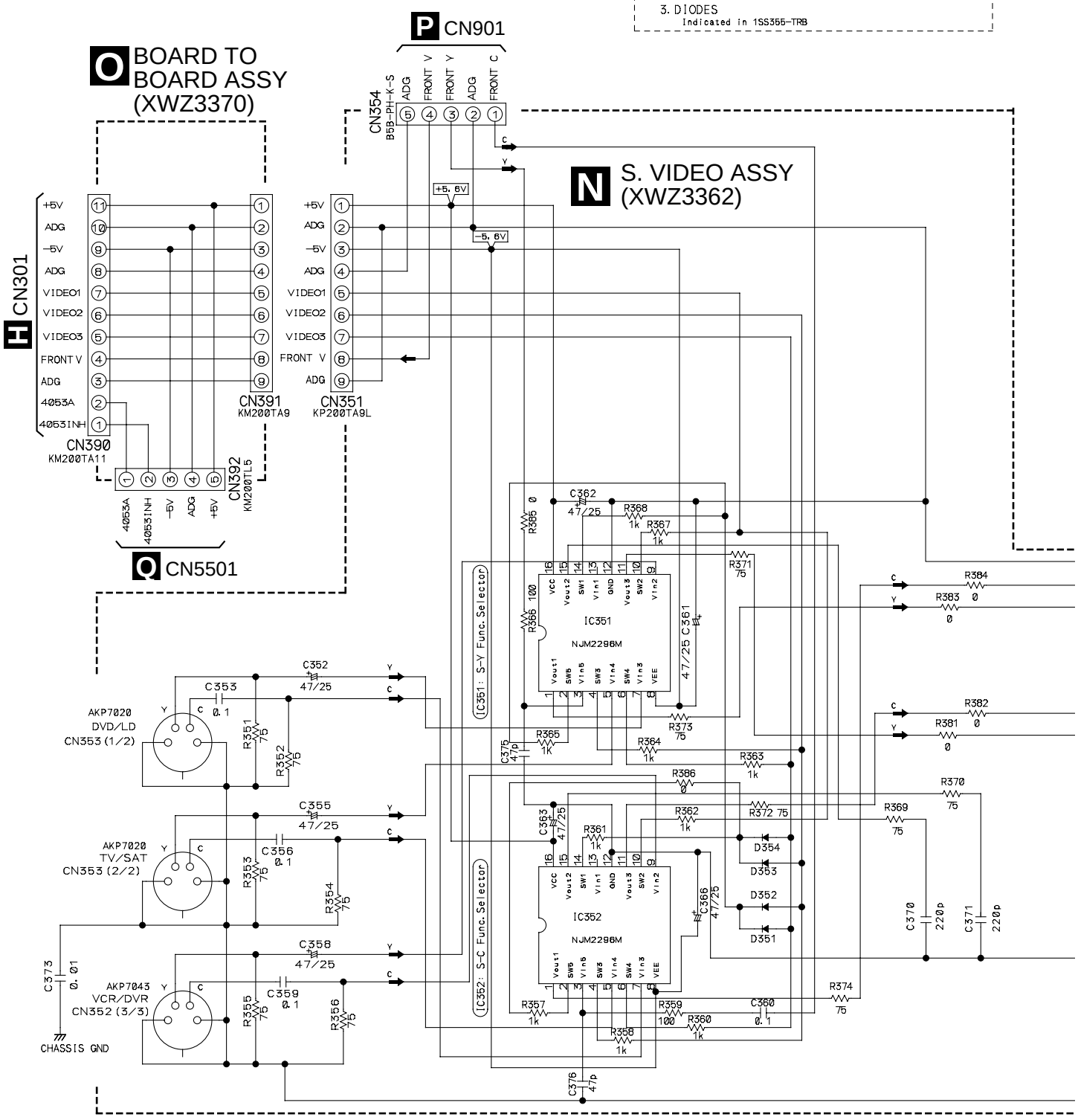
SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

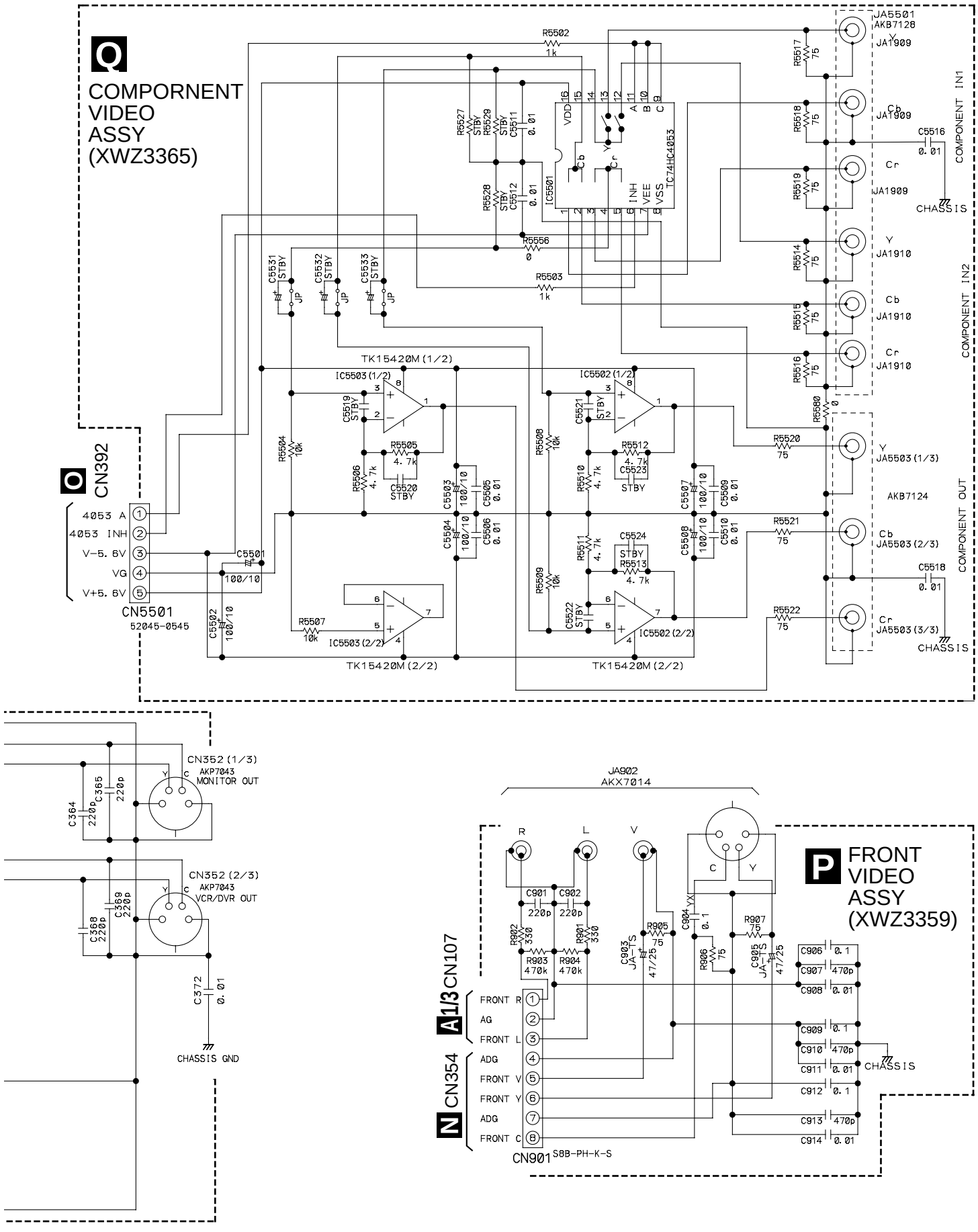
VIN 2. VCR/DVR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT VIDEO

Vout1. MONITOR out
Vout2. MR out
Vout3. VCR/DVR out

Video Signal Flow
Audio Signal Flow

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
Indicated in 1SS355-TRB




Q
COMPORNENT VIDEO ASSY (XWZ3365)
CN392
4053 A
4053 INH
V-5.6V
VG
V+5.6V
CN5501
52045-0545
JA5501
AKB7128
JA1909
JA1910
JA5503(1/3)
JA5503(2/3)
JA5503(3/3)
AKB7124
COMPONENT IN1
COMPONENT IN2
COMPONENT OUT
CHASSIS
TK15420M(1/2)
TK15420M(2/2)
IC5501
TC74HC4053
IC5502(1/2)
IC5503(1/2)
IC5502(2/2)
IC5503(2/2)
CN352(1/3)
AKP7043
MONITOR OUT
CN352(2/3)
VCR/DVR OUT
CHASSIS GND
JA902
AKX7014
P
FRONT VIDEO ASSY (XWZ3359)
A1/3 CN107
N CN354
FRONT R
AG
FRONT L
ADG
FRONT V
FRONT Y
ADG
FRONT C
CN901 S8B-PH-K-S

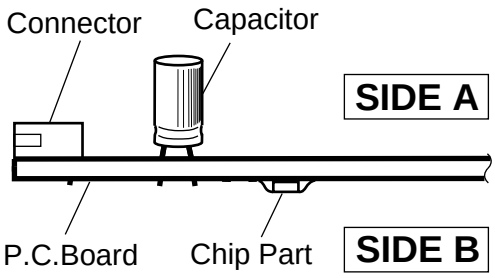
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

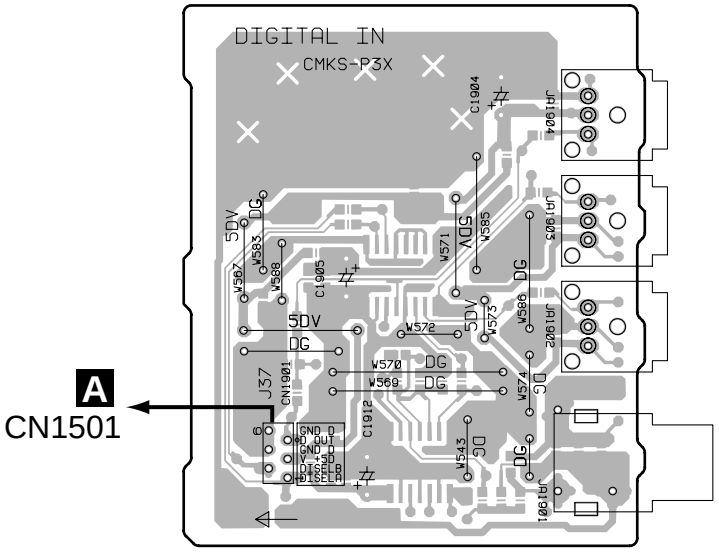
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 DIGITAL IN ASSY

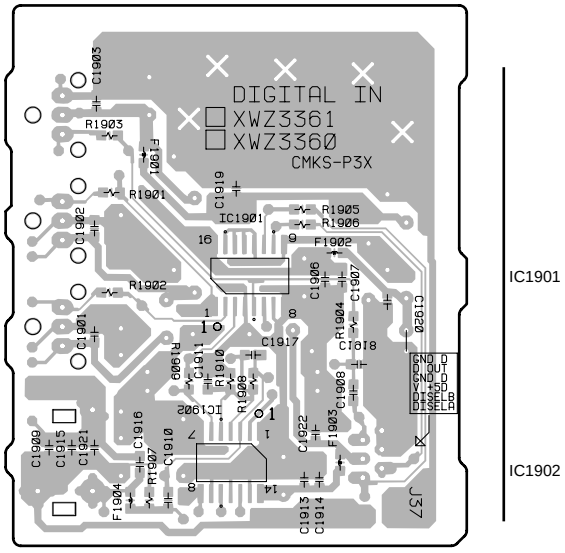
J DIGITAL IN ASSY



(XNP3035-B)

SIDE A

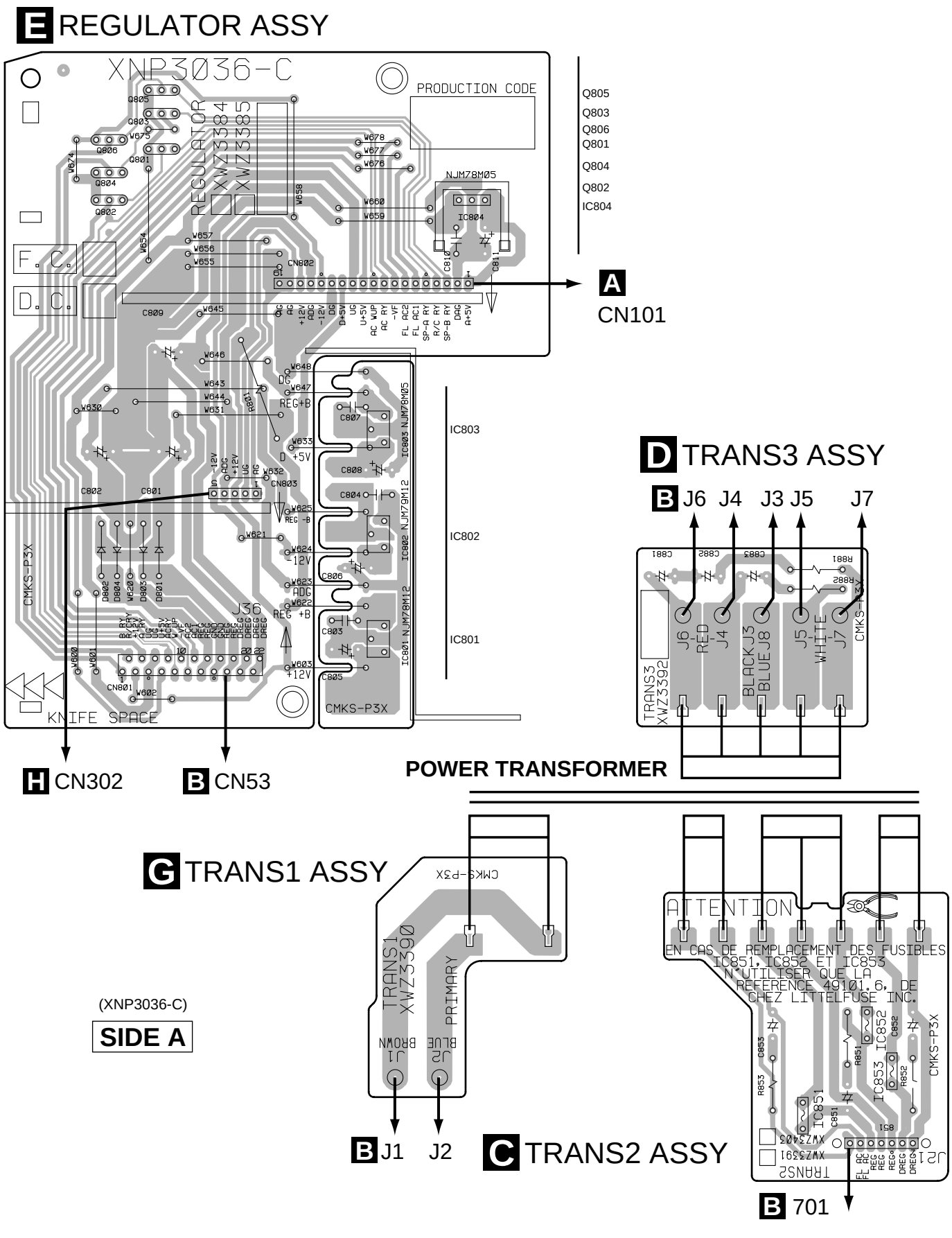
J DIGITAL IN ASSY



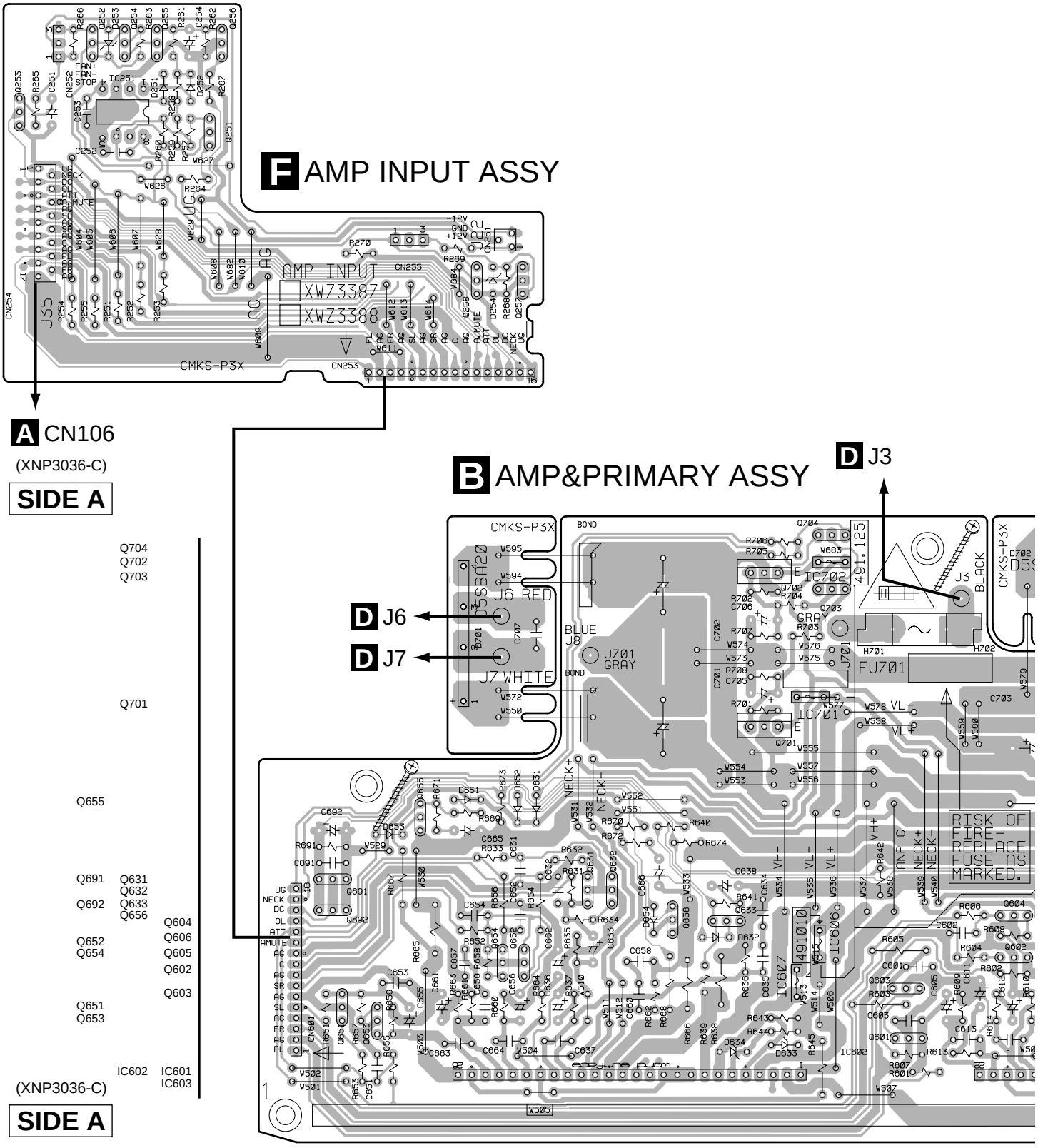
(XNP3035-B)

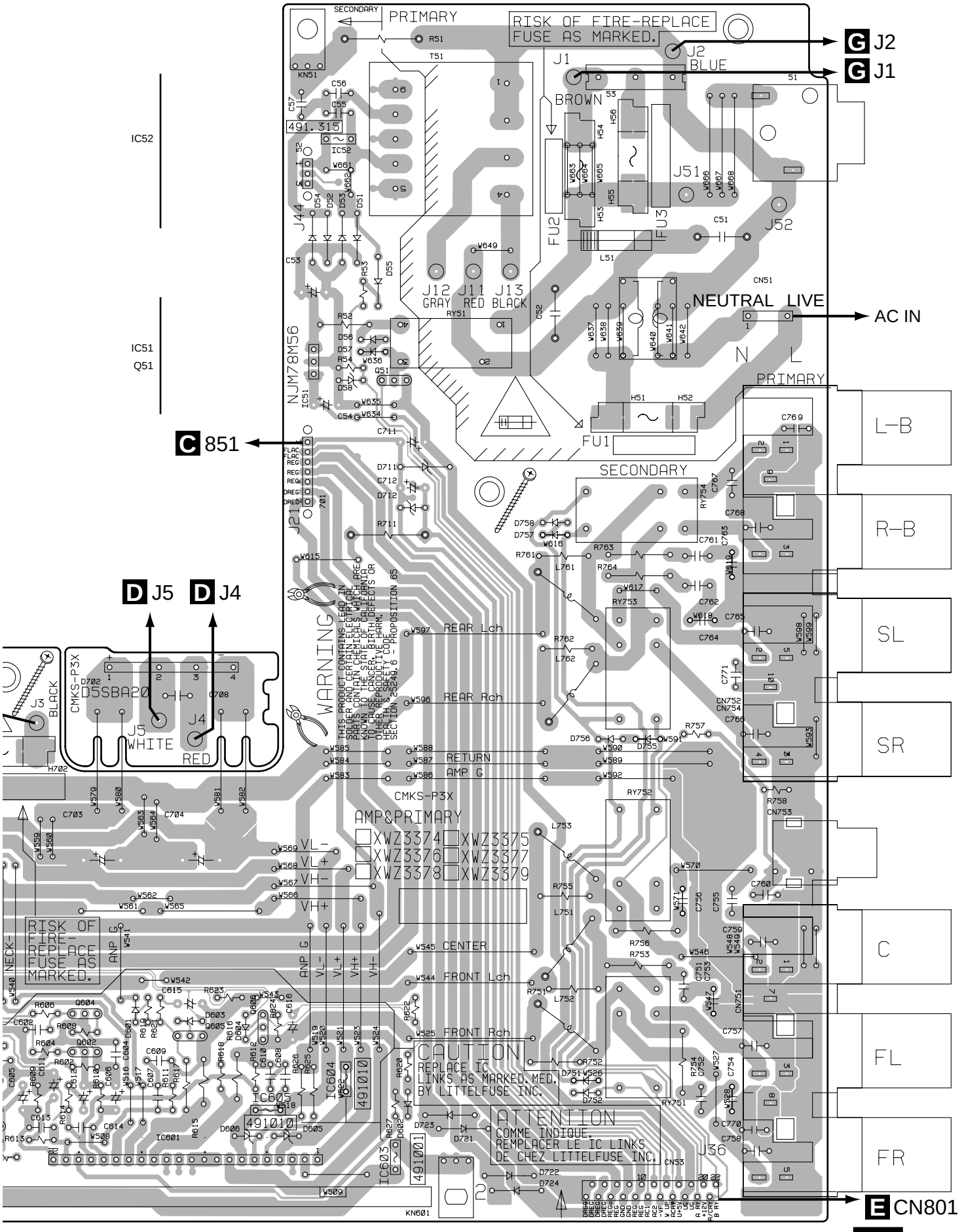
SIDE B

4.2 TRANS2, TRANS3, REGULATOR and TRANS1 ASSYS

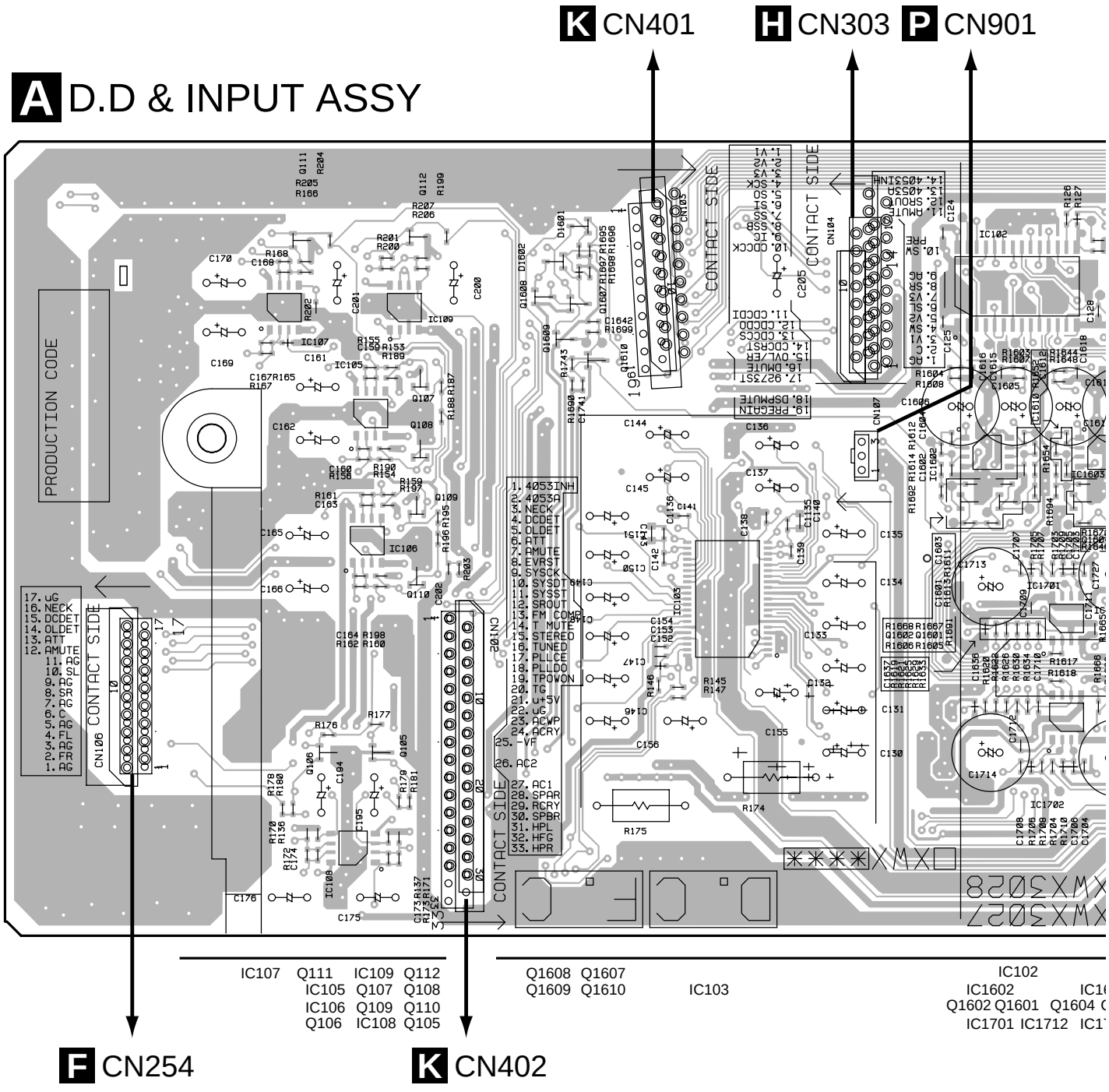


4.3 AMP INPUT and AMP&PRIMARY ASSYS

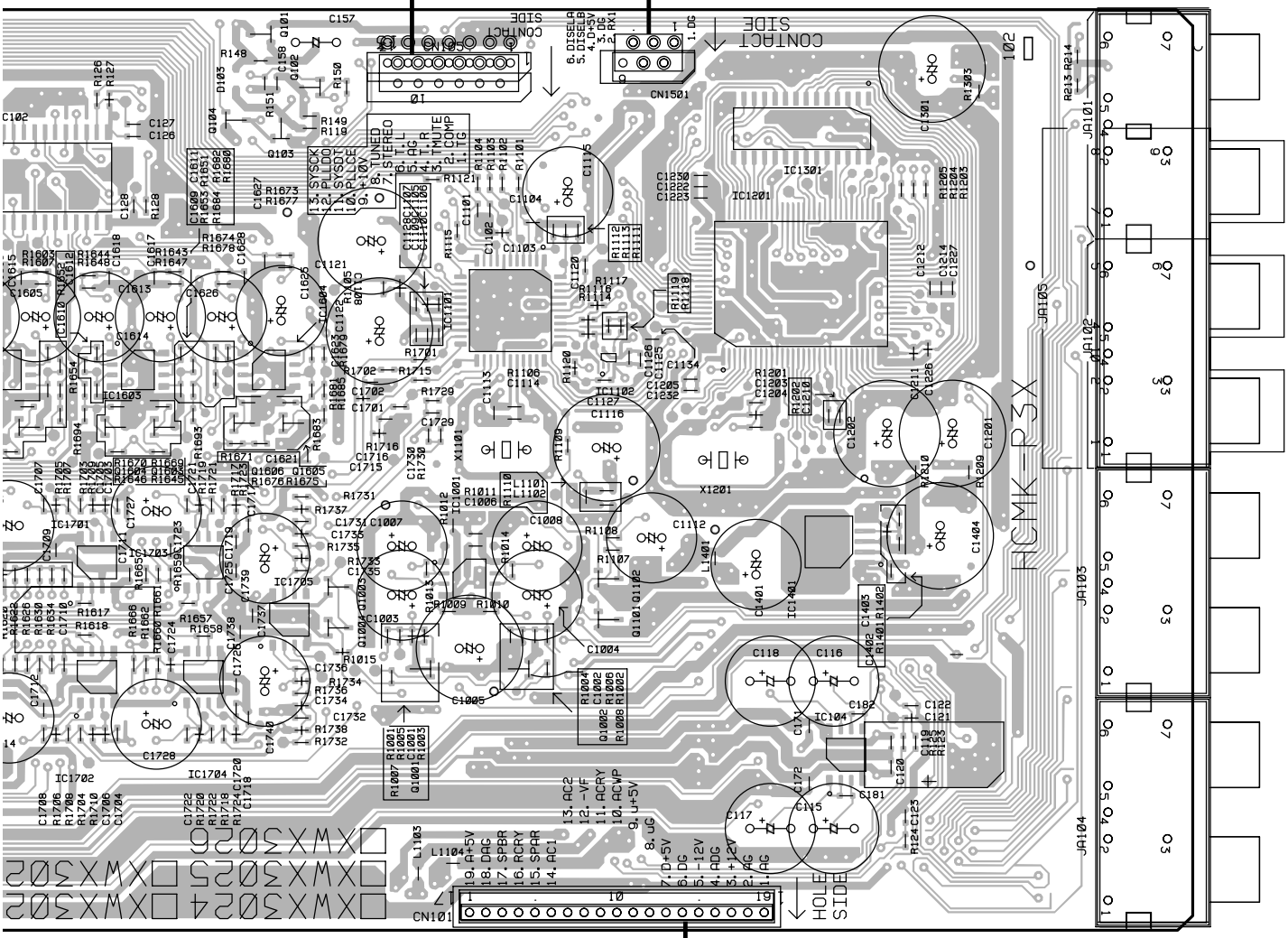



SECONDARY
PRIMARY
RISK OF FIRE-REPLACE FUSE AS MARKED.
J2 BLUE
J1 BROWN
G J2
G J1
IC52
491.315
IC51
Q51
NJM78M56
J12 J11 J13
GRAY RED BLACK
NEUTRAL LIVE
AC IN
C 851
D J5
D J4
J5 WHITE
J4 RED
J3 BLACK
CMKS-P3X
D5SBA20
WARNING
THIS PRODUCT CONTAINS LEAD IN SOLDER AND CERTAIN ELECTRICAL PARTS CONTAIN CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH OTHER REPRODUCTIVE HARM. SECTION 25249.6 OF PROPOSITION 65
REAR Lch
REAR Rch
RETURN
AMP G
CENTER
FRONT Lch
FRONT Rch
CMKS-P3X
AMP&PRIMARY
XWZ3374 XWZ3375
XWZ3376 XWZ3377
XWZ3378 XWZ3379
VL-
VL+
VH-
VH+
RISK OF FIRE-REPLACE FUSE AS MARKED.
CAUTION
REPLACE IC LINKS AS MARKED. MED. BY LITTELFUSE INC.
ATTENTION
COMME INDIQUE. REMPLACER LE IC LINKS DE CHEZ LITTELFUSE INC.
491010
491001
L-B
R-B
SL
SR
C
FL
FR
E CN801

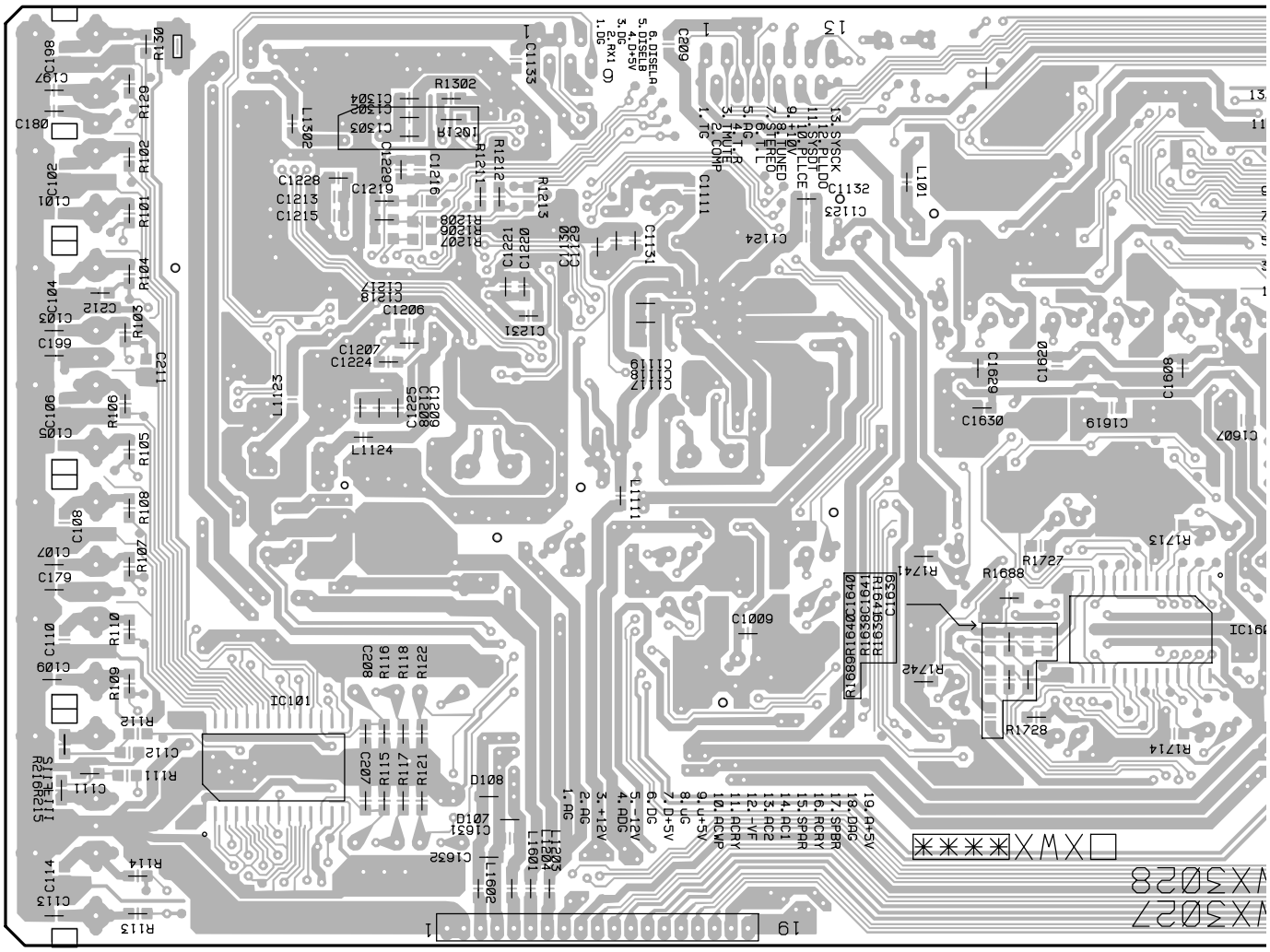
4.4 D.D & INPUT ASSY



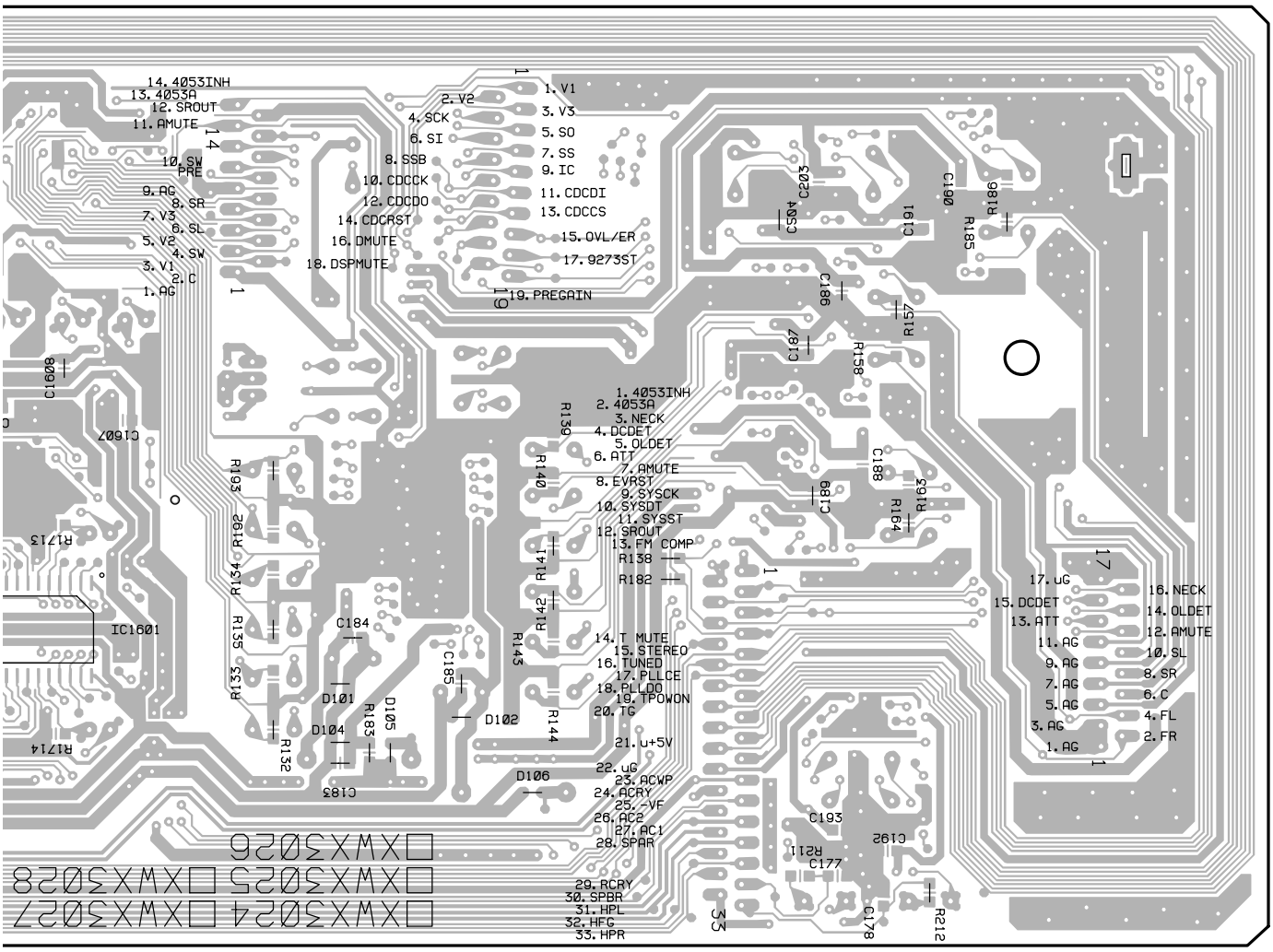
901 FM/AM TUNER UNIT **J** CN1901



A D.D & INPUT ASSY



IC101 IC1801

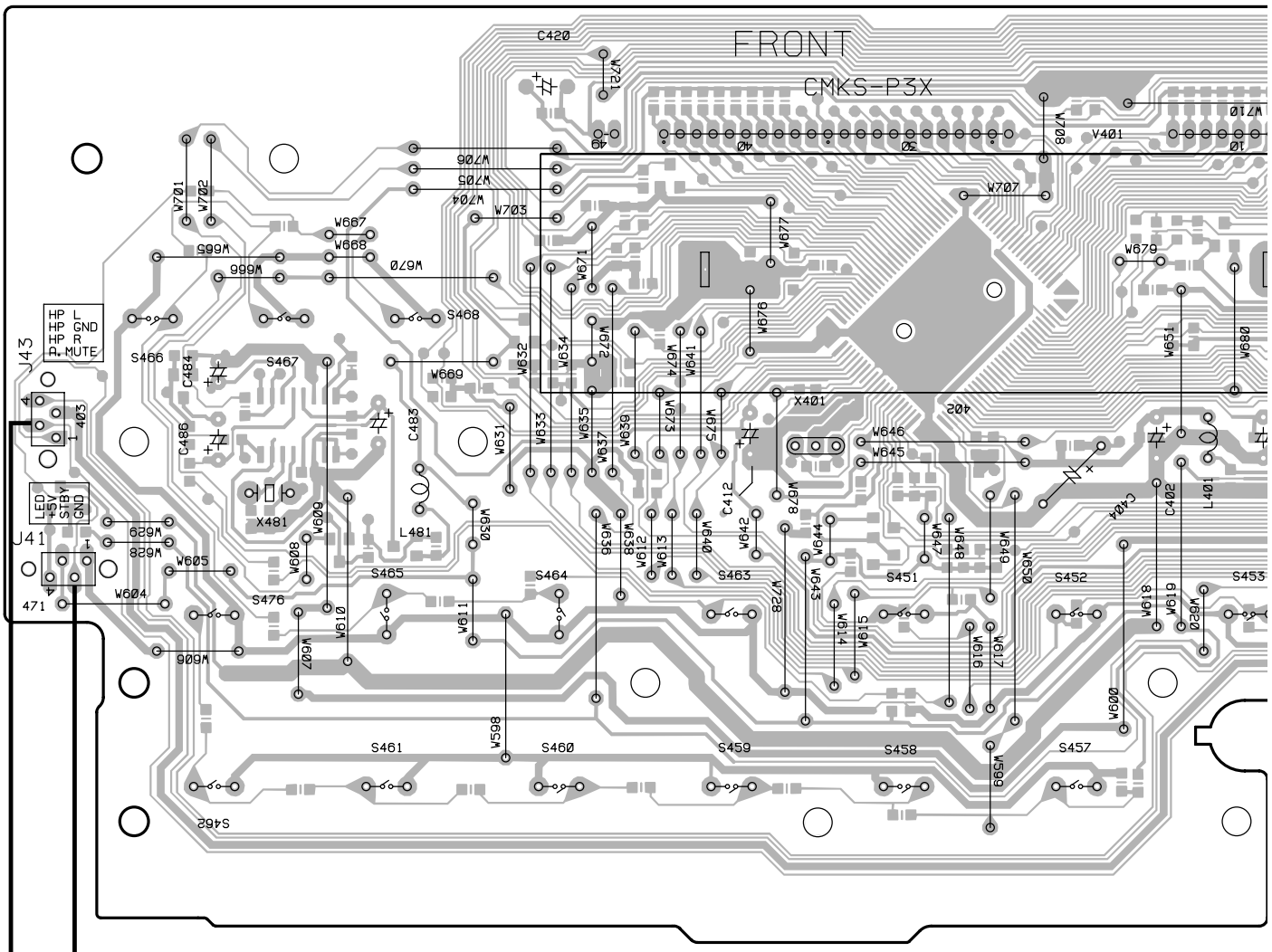


(XNP3037-A)

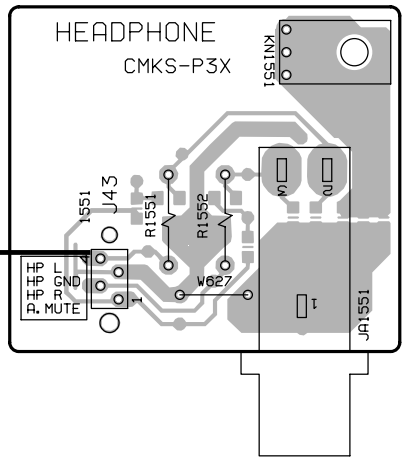
SIDE B

4.5 H.P., FRONT, R.ENCODER and POWER SW ASSYS

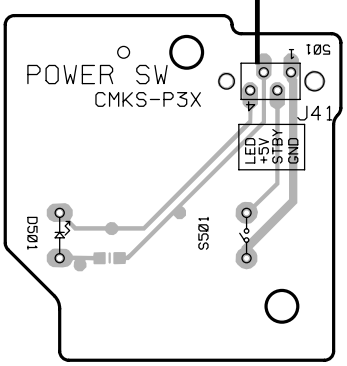
K FRONT ASSY



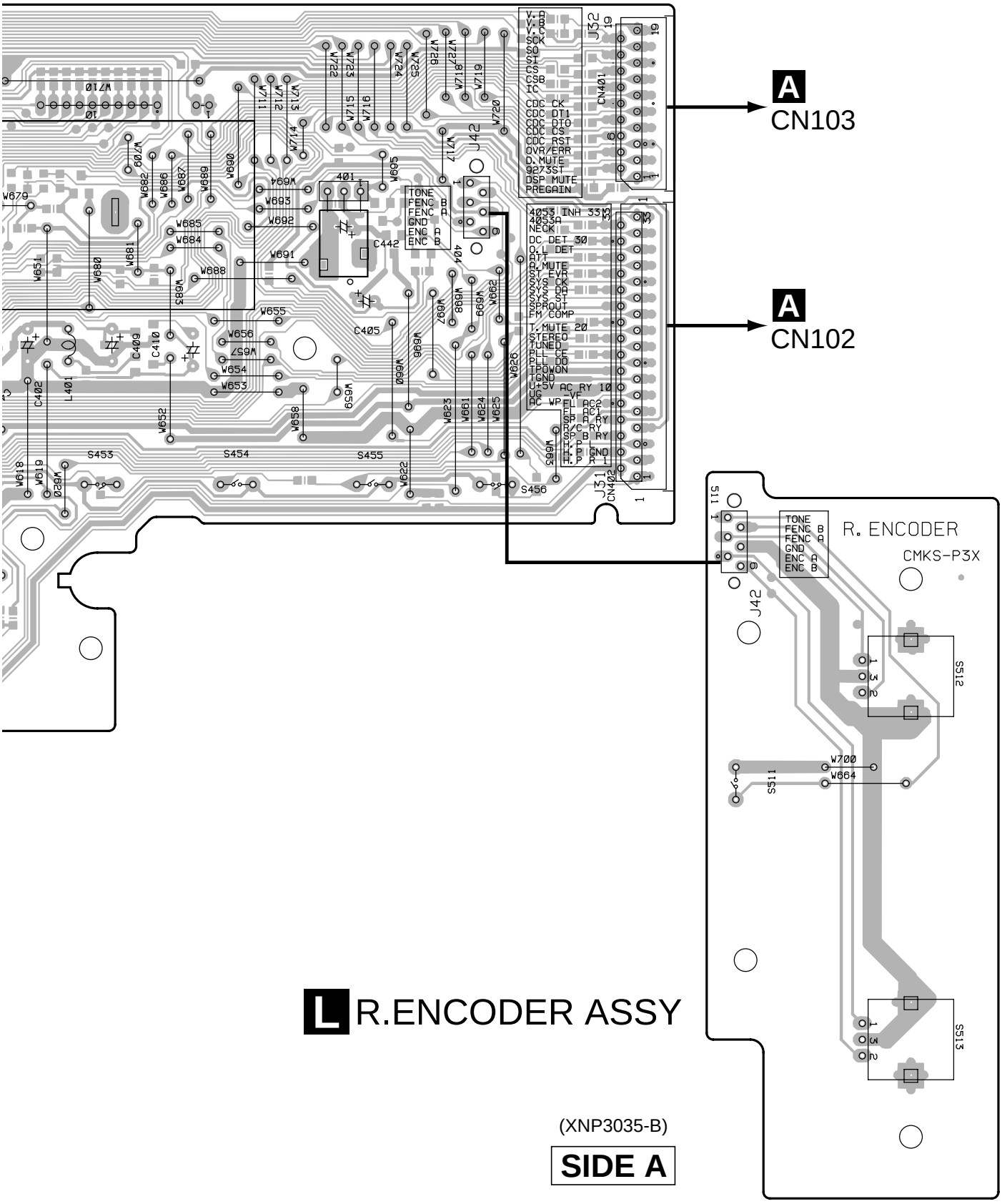
I H.P. ASSY



M POWER SW ASSY



I K M

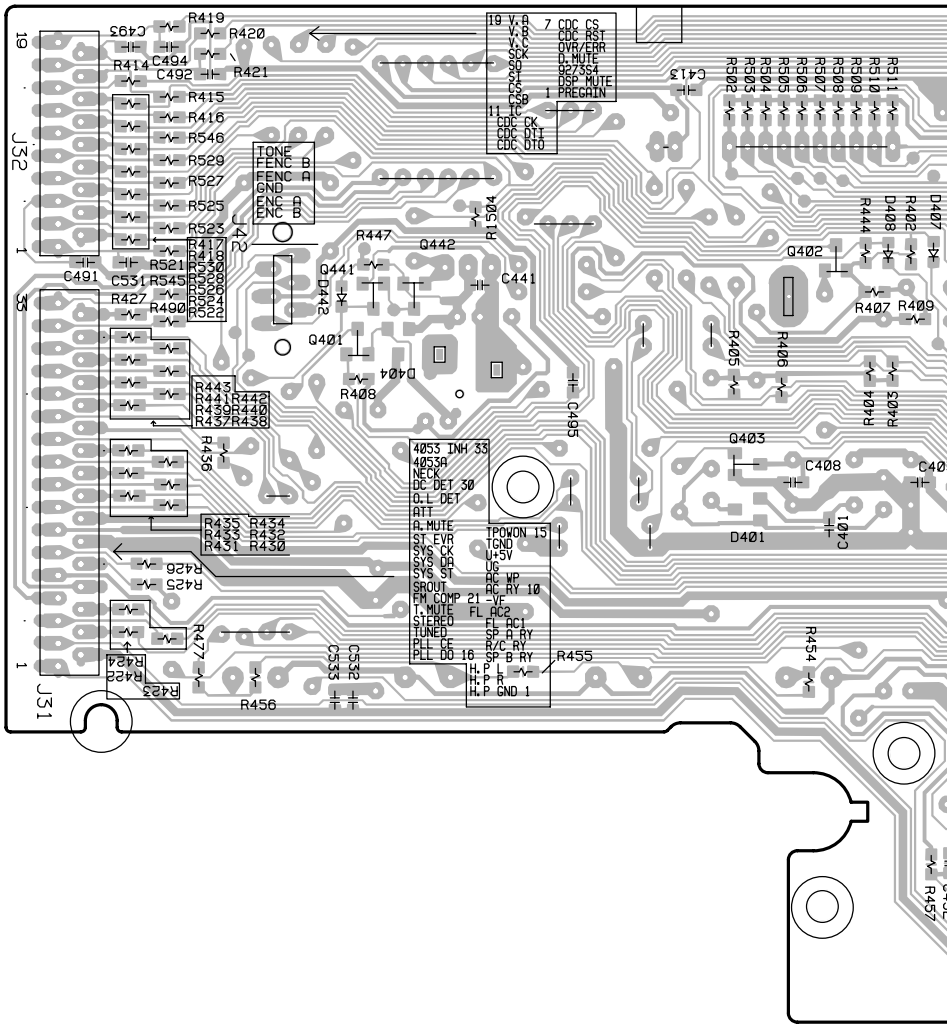


L R.ENCODER ASSY

(XNP3035-B)

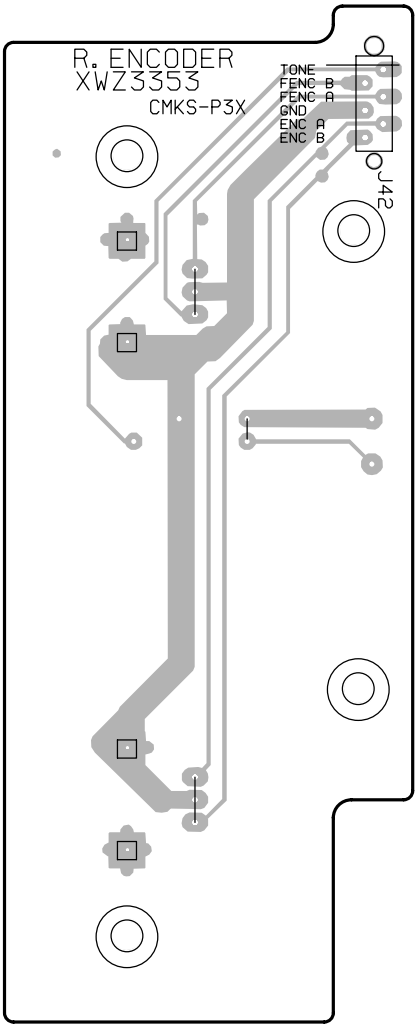
SIDE A

K FRONT ASSY



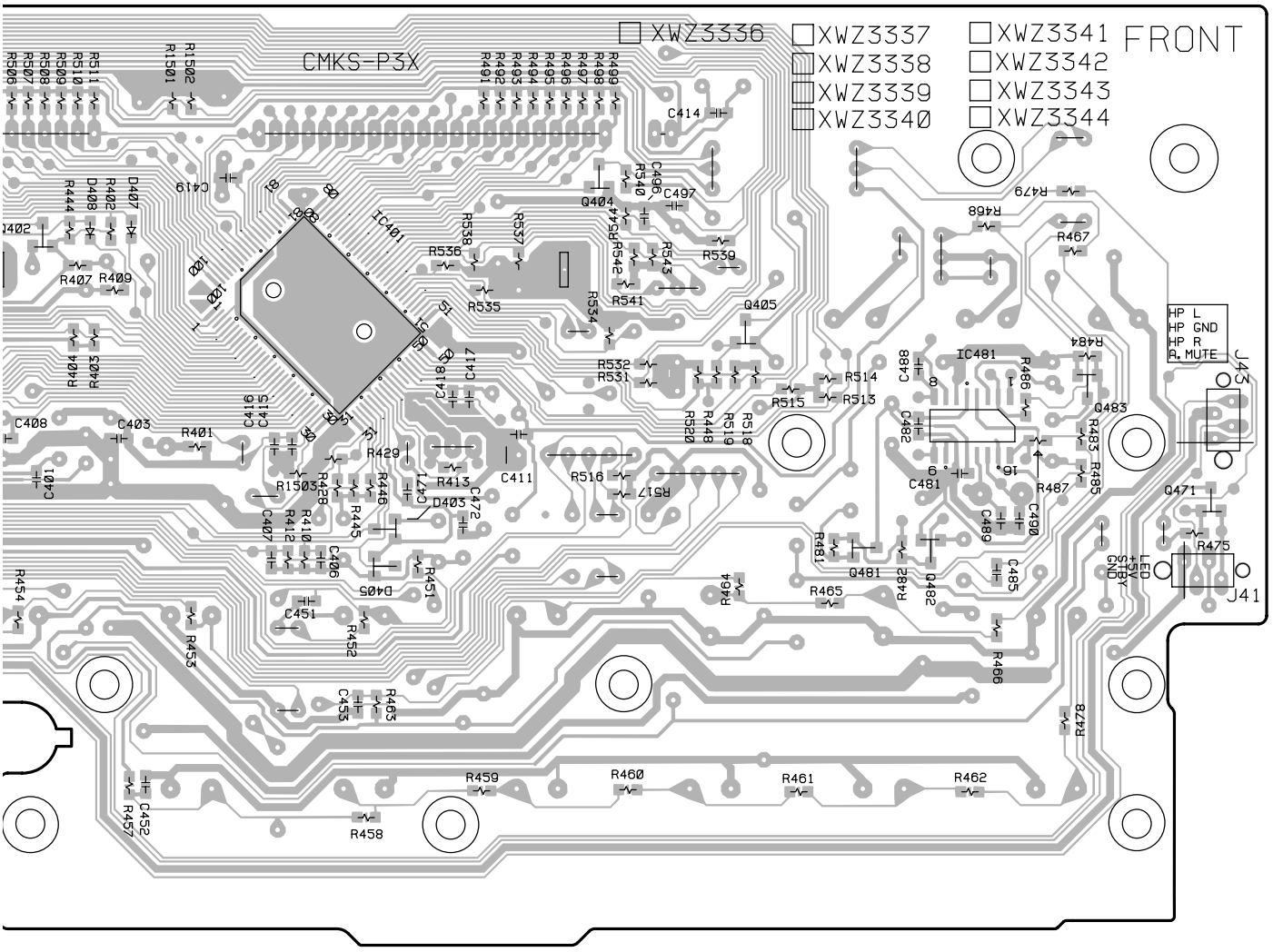
Q401 Q441 Q442 Q403 Q402

L R.ENCODER ASSY



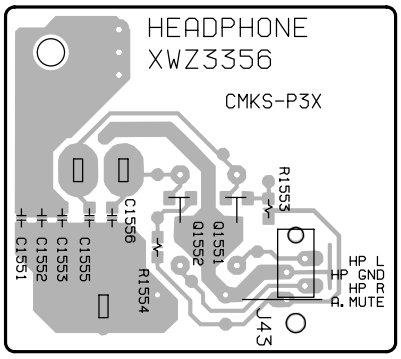
(XNP3035-B)

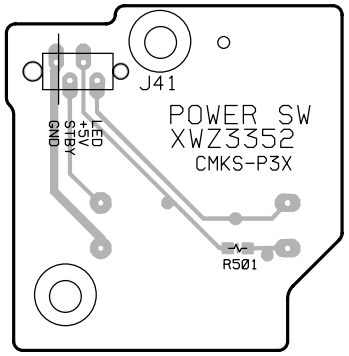
SIDE B



Q402 IC401 Q404 Q405 Q481 Q482 IC481 Q483

I H.P. ASSY

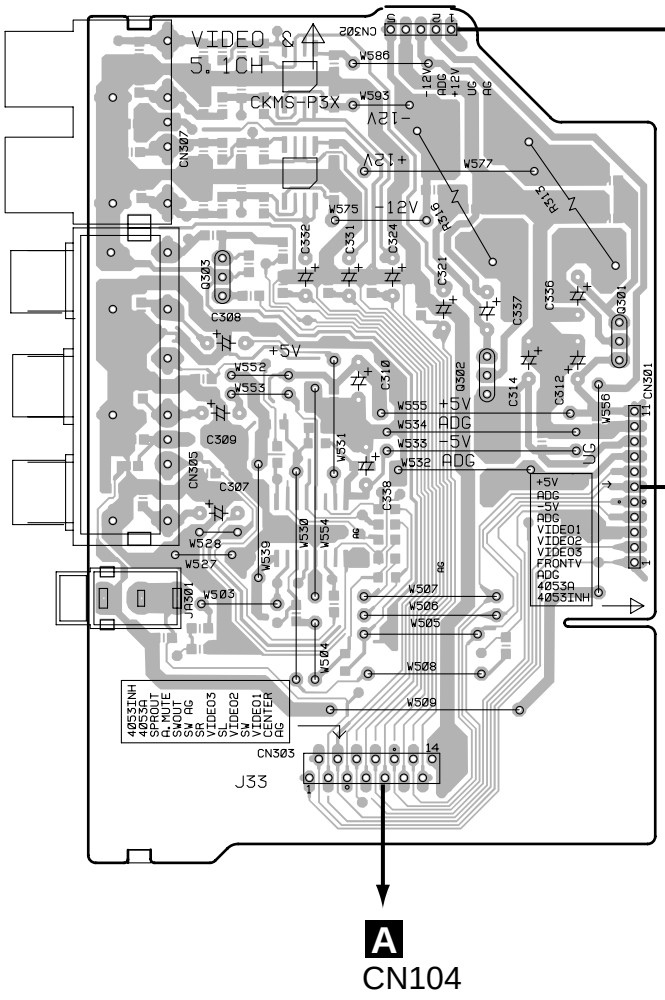




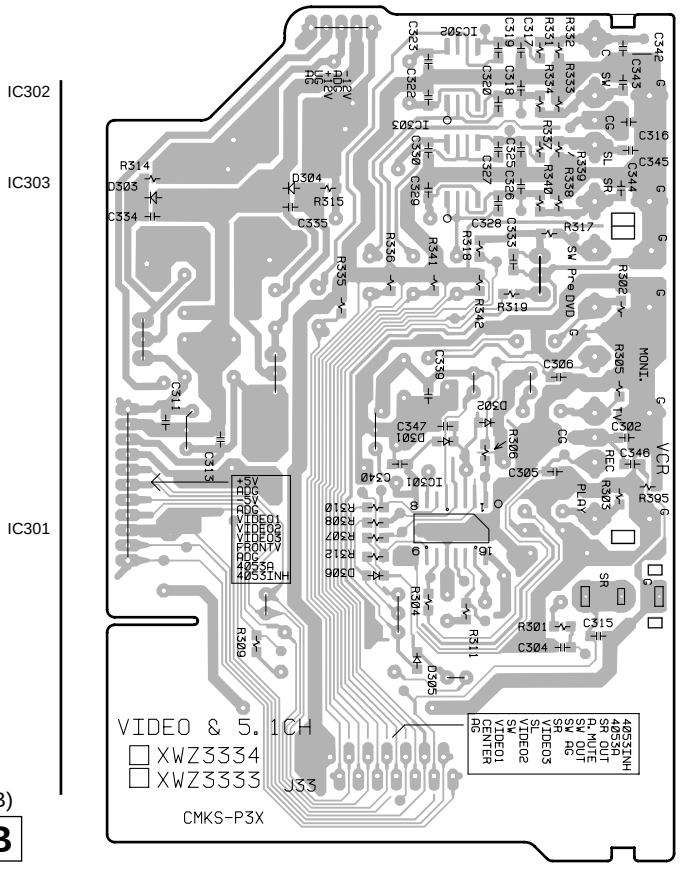
M POWER SW ASSY

4.6 VIDEO&6CH IN ASSY

H VIDEO&6CH IN ASSY

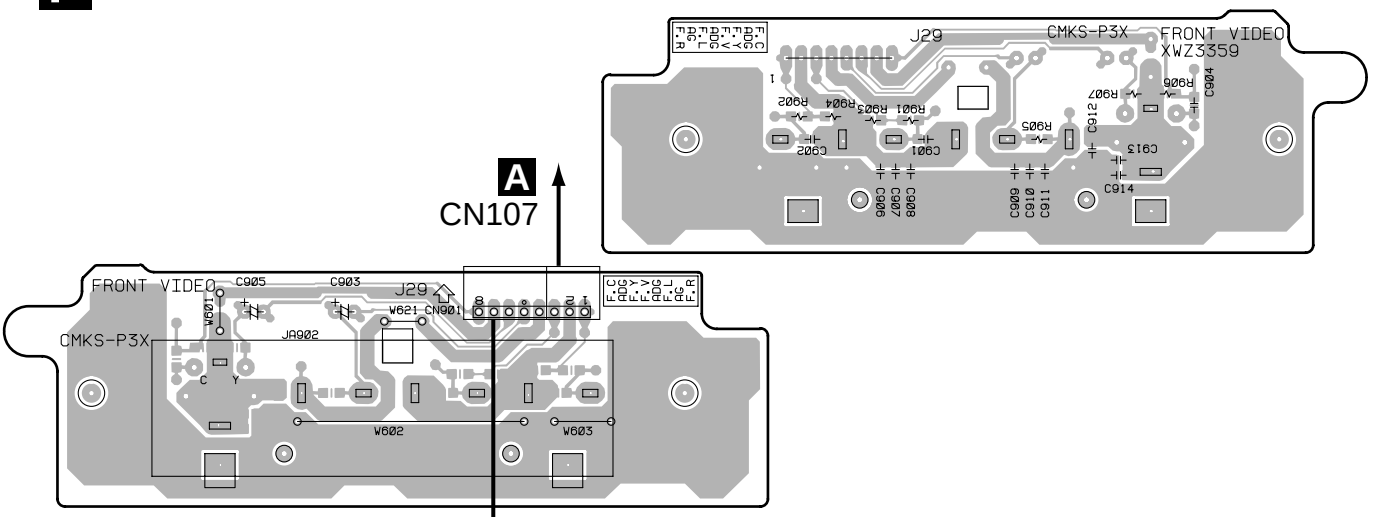


H VIDEO&6CH IN ASSY

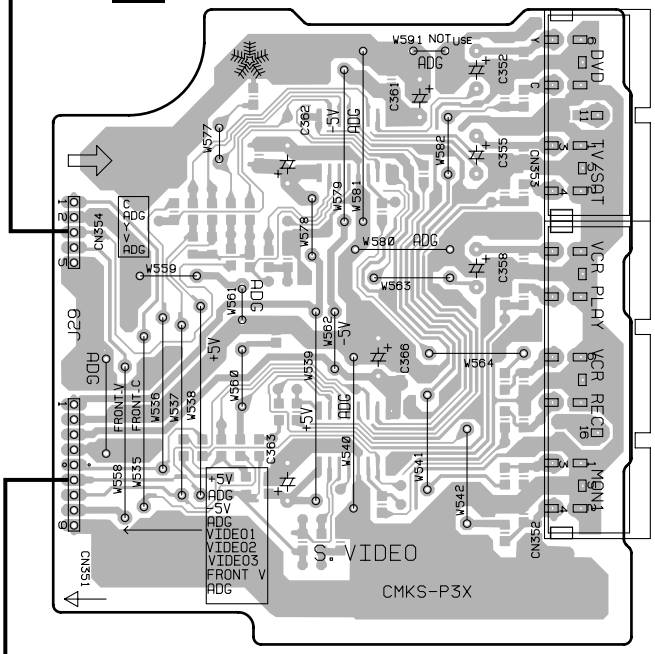


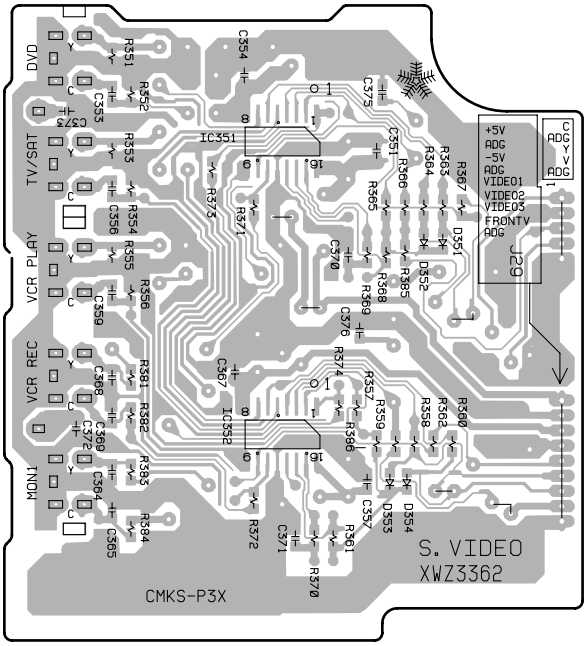
4.7 S.VIDEO, BOARD TO BOARD and FRONT VIDEO ASSYS

P FRONT VIDEO ASSY



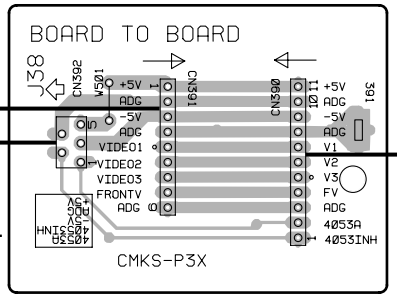
N S. VIDEO ASSY





IC351 IC352

O BOARD TO BOARD ASSY



Q CN5501

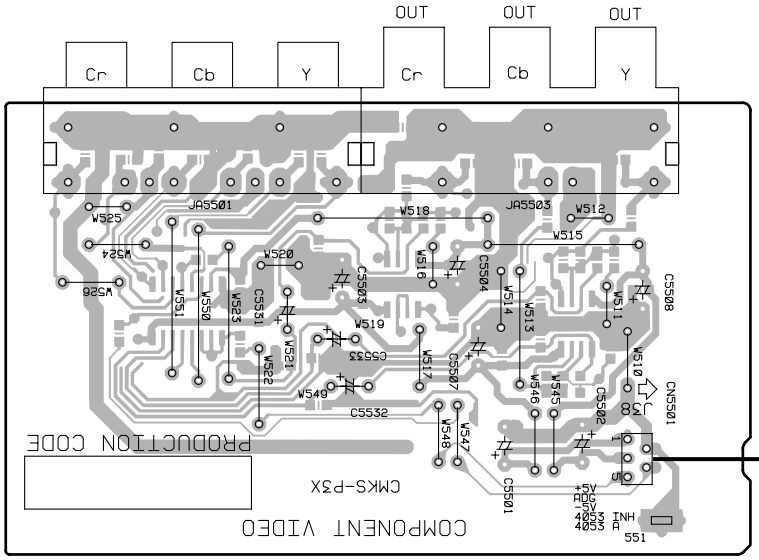
H CN301

(XNP3035-B)
SIDE A

(XNP3035-B)
SIDE B

4.8 COMPORNENT ASSY

Q COMPORNENT ASSY

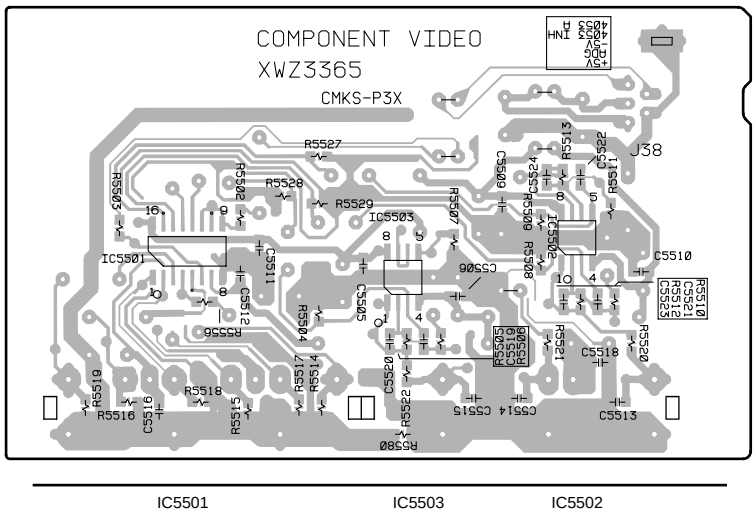


Q CN392

(XNP3035-B)

SIDE A

Q COMPORNENT ASSY



(XNP3035-B)

SIDE B

5. PCB PARTS LIST

NOTES: ●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Part No.
NSP		COMPLEX ASSY	XWK3005
		├ VIDEO&6CH IN ASSY	XWZ3334
		├ FRONT ASSY	XWZ3340
		├ POWER SW ASSY	XWZ3352
		├ R.ENCODER ASSY	XWZ3353
		├ H.P. ASSY	XWZ3356
		├ FRONT VIDEO ASSY	XWZ3359
		├ DIGITAL IN ASSY	XWZ3361
		├ S.VIDEO ASSY	XWZ3362
		├ COMPORNENT ASSY	XWZ3365
		└ BOARD TO BOARD ASSY	XWZ3370
NSP		AMP&PS ASSY	XWK3019
		├ AMP&PRIMARY ASSY	XWZ3376
		├ REGULATOR ASSY	XWZ3385
		├ AMP INPUT ASSY	XWZ3388
		├ TRANS2 ASSY	XWZ3391
NSP		├ TRANS1 ASSY	XWZ3390
NSP		└ TRANS3 ASSY	XWZ3392
		D.D & INPUT ASSY	XWX3026

COMPLEX ASSY

OTHERS

J 43	JUMPER WIRED	15A04-075-2651
J 41	JUMPER WIRED	15A04-125-2651
J 42	JUMPER WIRED	15A06-075-2651

AMP&PS ASSY

OTHERS

J 21	JUMPER WIRE	D20PYY0715E
J 6	LEAD WIRE UNIT	DB215NB0

A D.D & INPUT ASSY

SEMICONDUCTORS

IC1001	OP-AMP IC	NJM2100M
IC101	ANALOG SWITCH IC	TC9273F-007
IC102	E-SW IC	TC9163AF
IC103	E-VR IC	M62446FP
IC104	OP-AMP IC	UPC4570G2-TFB
IC105	OP-AMP IC	UPC4570G2-TFB
IC106	OP-AMP IC	UPC4570G2-TFB
IC107	OP-AMP IC	UPC4570G2-TFB
IC108	OP-AMP IC	M5216FP
IC1101	MULTI CH CODEC IC	CS4226-KQ(J)

Mark	No.	Description	Part No.
	IC1201	DTS DECORDER IC	YSS912C
	IC1301	SRAM	IS61C256AH-15J
	IC1401	REGULATOR IC	PQ20WZ51
	IC1601	E-SW IC	TC9164AF
	IC1602	IC	NJM4558MD
	IC1603	IC	NJM4558MD
	IC1604	IC	NJM4558MD
	IC1701	IC	NJM4558MD
	IC1702	IC	NJM4558MD
	IC1703	IC	NJM4558MD
	IC1704	IC	NJM4558MD
	IC1705	IC	NJM4558MD
	Q1001	CHIP MUTING TR	2SC3326
	Q1002	CHIP MUTING TR	2SC3326
	Q1003	CHIP DIGITAL TRANS.	DTA124EK
	Q1004	DIGITAL TRANSISTOR	DTC124EK
	Q101	CHIP TRANSISTOR	2SC2412K
	Q103	TRANSISTOR	DTA143EK
	Q104	DIGITAL TRANSISTOR	DTC124EK
	Q105	CHIP MUTING TR	2SC3326
	Q106	CHIP MUTING TR	2SC3326
	Q107	CHIP MUTING TR	2SC3326
	Q108	CHIP MUTING TR	2SC3326
	Q109	CHIP MUTING TR	2SC3326
	Q110	CHIP MUTING TR	2SC3326
	Q1101	CHIP DIGITAL TRANS.	DTA124EK
	Q1102	DIGITAL TRANSISTOR	DTC124EK
	Q111	CHIP MUTING TR	2SC3326
	Q112	CHIP MUTING TR	2SC3326
	Q1601	CHIP MUTING TR	2SC3326
	Q1602	CHIP MUTING TR	2SC3326
	Q1603	CHIP MUTING TR	2SC3326
	Q1604	CHIP MUTING TR	2SC3326
	Q1605	CHIP MUTING TR	2SC3326
	Q1606	CHIP MUTING TR	2SC3326
	Q1607	CHIP DIGITAL TRANS.	DTA124EK
	Q1608	CHIP DIGITAL TRANS.	DTA124EK
	Q1609	DIGITAL TRANSISTOR	DTC124EK
	Q1610	CHIP DIGITAL TRANS.	DTA124EK
	D101	CHIP ZENER DIODE	UDZS6.8B
	D102	CHIP ZENER DIODE	UDZS6.8B
	D103	DIODE	1SS355
	D104	CHIP ZENER DIODE	UDZS5.1B
	D105	DIODE	1SS355
	D106	DIODE	1SS355
	D1601	DIODE	1SS181
	D1602	DIODE	1SS181

Mark	No.	Description	Part No.
COILS AND FILTERS			
	L101	CHIP SOLID INDUCTOR	QTL1013
	L1101	CHIP SOLID INDUCTOR	QTL1013
	L1102	CHIP SOLID INDUCTOR	QTL1013
	L1103	CHIP SOLID INDUCTOR	QTL1013
	L1104	CHIP SOLID INDUCTOR	QTL1013
	L1111	CHIP SOLID INDUCTOR	QTL1013
	L1123	CHIP SOLID INDUCTOR	QTL1013
	L1124	CHIP SOLID INDUCTOR	QTL1013
	L1203	CHIP SOLID INDUCTOR	QTL1013
	L1204	CHIP SOLID INDUCTOR	QTL1013
	L1302	CHIP SOLID INDUCTOR	QTL1013
	L1401	CHIP SOLID INDUCTOR	ATL7002
	L1601	CHIP SOLID INDUCTOR	QTL1013
	L1602	CHIP SOLID INDUCTOR	QTL1013
CAPACITORS			
	C1001	CERAMIC CAPACITOR	CCSRCH101J50
	C1002	CERAMIC CAPACITOR	CCSRCH101J50
	C1003	ELECT. CAPACITOR	CEAT4R7M50
	C1004	ELECT. CAPACITOR	CEAT4R7M50
	C1005	ELECT. CAPACITOR	CEAT221M6R3
	C1006	CHIP CERAMIC C.	CKSRYB103K50
	C1007	ELECT. CAPACITOR	CEJQNP100M10
	C1008	ELECT. CAPACITOR	CEJQNP100M10
	C1009	CERAMIC CAPACITOR	CKSRYF104Z25
	C101	CERAMIC CAPACITOR	CCSRCH101J50
	C102	CERAMIC CAPACITOR	CCSRCH101J50
	C103	CERAMIC CAPACITOR	CCSRCH101J50
	C104	CERAMIC CAPACITOR	CCSRCH101J50
	C105	CERAMIC CAPACITOR	CCSRCH101J50
	C106	CERAMIC CAPACITOR	CCSRCH101J50
	C107	CERAMIC CAPACITOR	CCSRCH101J50
	C108	CERAMIC CAPACITOR	CCSRCH101J50
	C109	CERAMIC CAPACITOR	CCSRCH101J50
	C110	CERAMIC CAPACITOR	CCSRCH101J50
	C1101	CHIP CERAMIC C.	CCSRCH471J50
	C1102	CERAMIC CAPACITOR	CCSRCH102J50
	C1103	CERAMIC CAPACITOR	CCSRCH390J50
	C1104	CERAMIC CAPACITOR	CCSRCH390J50
	C1105	CERAMIC CAPACITOR	CKSRYF104Z16
	C1106	CHIP CERAMIC C.	CCSRCH471J50
	C1107	CHIP CERAMIC C.	CKSRYB223K50
	C1108	CERAMIC CAPACITOR	CKSQYB224K16
	C1109	CERAMIC CAPACITOR	CKSRYF104Z16
	C111	CERAMIC CAPACITOR	CCSRCH101J50
	C1110	CHIP CERAMIC C.	CCSRCH471J50
	C1111	CERAMIC CAPACITOR	CKSRYF104Z25
	C1112	ELECT. CAPACITOR	CEAT1R0M50
	C1113	CERAMIC CAPACITOR	CCSRCH180J50
	C1114	CERAMIC CAPACITOR	CCSRCH180J50
	C1115	ELECT. CAPACITOR	CEATR47M50
	C1116	ELECT. CAPACITOR	CEAT101M10
	C1117	CERAMIC CAPACITOR	CKSRYF104Z25
	C1118	CHIP CERAMIC C.	CCSRCH471J50
	C1119	CHIP CERAMIC C.	CCSRCH271J50
	C112	CERAMIC CAPACITOR	CCSRCH101J50
	C1121	ELECT. CAPACITOR	CEAT101M10
	C1122	ELECT. CAPACITOR	CEAT101M10
	C1123	CHIP CERAMIC C.	CCSRCH331J50
	C1124	CHIP CERAMIC C.	CCSRCH331J50
	C1128	CHIP CERAMIC C.	CKSRYB103K50
	C1129	CHIP CERAMIC C.	CKSRYB103K50
	C113	CERAMIC CAPACITOR	CCSRCH101J50
	C1130	CHIP CERAMIC C.	CCSRCH471J50
	C1132	CHIP CERAMIC C.	CKSRYB103K50
	C1133	CERAMIC CAPACITOR	CKSRYF104Z25
	C1134	CHIP CERAMIC C.	CKSRYB103K50
	C1135	CERAMIC CAPACITOR	CKSRYB104K16
	C1136	CERAMIC CAPACITOR	CKSRYB104K16
	C114	CERAMIC CAPACITOR	CCSRCH101J50
	C115	ELECT. CAPACITOR	CEAT4R7M50
	C116	ELECT. CAPACITOR	CEAT4R7M50
	C117	ELECT. CAPACITOR	CEAT470M25
	C118	ELECT. CAPACITOR	CEAT470M25
	C119	CHIP CERAMIC C.	CKSRYB103K50
	C120	CHIP CERAMIC C.	CKSRYB103K50
	C1201	ELECT. CAPACITOR	CEAT101M10
	C1202	ELECT. CAPACITOR	CEAT221M6R3
	C1203	CHIP CERAMIC C.	CCSRCH200J50
	C1204	CHIP CERAMIC C.	CCSRCH200J50
	C1205	CHIP CERAMIC C.	CKSRYB103K50
	C1206	CHIP CERAMIC C.	CKSRYB103K50
	C1207	CERAMIC CAPACITOR	CCSRCH101J50
	C1208	CHIP CERAMIC C.	CKSRYB103K50
	C1209	CERAMIC CAPACITOR	CCSRCH101J50
	C121	CERAMIC CAPACITOR	CCSRCH101J50
	C1210	CHIP CERAMIC C.	CCSRCH471J50
	C1211	CHIP CERAMIC C.	CKSRYB103K50
	C1212	CERAMIC CAPACITOR	CCSRCH101J50
	C1213	CERAMIC CAPACITOR	CCSRCH101J50
	C1214	CHIP CERAMIC C.	CKSRYB103K50
	C1215	CHIP CERAMIC C.	CKSRYB103K50
	C1216	CHIP CERAMIC C.	CKSRYB103K50
	C1217	CERAMIC CAPACITOR	CCSRCH101J50
	C1218	CERAMIC CAPACITOR	CCSRCH101J50
	C1219	CERAMIC CAPACITOR	CKSRYF104Z25
	C122	CERAMIC CAPACITOR	CCSRCH101J50
	C1220	CHIP CERAMIC C.	CKSRYB103K50
	C1221	CERAMIC CAPACITOR	CCSRCH101J50
	C1222	CHIP CERAMIC C.	CKSRYB103K50
	C1223	CERAMIC CAPACITOR	CCSRCH101J50
	C1224	CERAMIC CAPACITOR	CKSRYF104Z25
	C1225	CERAMIC CAPACITOR	CKSRYF104Z25
	C1226	CERAMIC CAPACITOR	CKSRYF104Z16
	C1227	CERAMIC CAPACITOR	CKSRYF104Z16
	C1228	CERAMIC CAPACITOR	CKSRYF104Z25
	C1229	CERAMIC CAPACITOR	CKSRYF104Z25
	C123	CERAMIC CAPACITOR	CCSRCH101J50
	C1230	CERAMIC CAPACITOR	CKSRYF104Z16
	C1231	CERAMIC CAPACITOR	CKSRYF104Z25
	C1232	CERAMIC CAPACITOR	CKSRYF104Z16
	C124	CHIP CERAMIC C.	CKSRYB103K50
	C125	CHIP CERAMIC C.	CKSRYB103K50
	C126	CERAMIC CAPACITOR	CCSRCH101J50
	C127	CERAMIC CAPACITOR	CCSRCH101J50
	C128	CERAMIC CAPACITOR	CCSRCH101J50
	C130	ELECT. CAPACITOR	CEAT100M50
	C1301	ELECT. CAPACITOR	CEJQ101M10
	C1302	CHIP CERAMIC C.	CKSRYB103K50
	C1303	CERAMIC CAPACITOR	CCSRCH101J50
	C1304	CERAMIC CAPACITOR	CKSRYF104Z25

Mark	No.	Description	Part No.
	C131	ELECT. CAPACITOR	CEAT100M50
	C132	ELECT. CAPACITOR	CEAT100M50
	C133	ELECT. CAPACITOR	CEAT100M50
	C134	ELECT. CAPACITOR	CEAT100M50
	C135	ELECT. CAPACITOR	CEAT100M50
	C136	ELECT. CAPACITOR	CEAT100M50
	C137	ELECT. CAPACITOR	CEAT100M50
	C138	CHIP CERAMIC C.	CKSRYB822K50
	C139	CHIP CERAMIC C.	CKSRYB153K50
	C140	CERAMIC CAPACITOR	CKSQYB224K16
	C1401	ELECT. CAPACITOR	CEAT4R7M50
	C1404	ELECT. CAPACITOR	CEAT101M10
	C141	CHIP CERAMIC C.	CKSRYB822K50
	C142	CHIP CERAMIC C.	CKSRYB153K50
	C143	CERAMIC CAPACITOR	CKSQYB224K16
	C144	ELECT. CAPACITOR	CEAT3R3M50
	C145	ELECT. CAPACITOR	CEAT3R3M50
	C146	ELECT. CAPACITOR	CEAT100M50
	C147	ELECT. CAPACITOR	CEAT3R3M50
	C148	ELECT. CAPACITOR	CEAT3R3M50
	C149	ELECT. CAPACITOR	CEAT3R3M50
	C150	ELECT. CAPACITOR	CEAT3R3M50
	C151	ELECT. CAPACITOR	CEAT3R3M50
	C152	CERAMIC CAPACITOR	CCSRCH101J50
	C153	CERAMIC CAPACITOR	CCSRCH101J50
	C154	CERAMIC CAPACITOR	CCSRCH101J50
	C155	ELECT. CAPACITOR	CEAT471M10
	C156	ELECT. CAPACITOR	CEAT471M10
	C157	ELECT. CAPACITOR	CEAT101M16
	C159	CERAMIC CAPACITOR	CCSRCH101J50
	C160	CERAMIC CAPACITOR	CCSRCH101J50
	C1601	CHIP CERAMIC C.	CCSRCH221J50
	C1602	CHIP CERAMIC C.	CCSRCH221J50
	C1603	CHIP CERAMIC C.	CCSRCH471J50
	C1604	CHIP CERAMIC C.	CCSRCH471J50
	C1605	ELECT. CAPACITOR	CEAT4R7M50
	C1606	ELECT. CAPACITOR	CEAT4R7M50
	C1607	CHIP CERAMIC C.	CKSRYB103K50
	C1608	CHIP CERAMIC C.	CKSRYB103K50
	C1609	CHIP CERAMIC C.	CCSRCH221J50
	C161	ELECT. CAPACITOR	CEAT470M25
	C1610	CHIP CERAMIC C.	CCSRCH221J50
	C1611	CHIP CERAMIC C.	CCSRCH471J50
	C1612	CHIP CERAMIC C.	CCSRCH471J50
	C1613	ELECT. CAPACITOR	CEAT4R7M50
	C1614	ELECT. CAPACITOR	CEAT4R7M50
	C1615	CHIP CERAMIC C.	CKSRYB222K50
	C1616	CHIP CERAMIC C.	CKSRYB222K50
	C1617	CHIP CERAMIC C.	CKSRYB222K50
	C1618	CHIP CERAMIC C.	CKSRYB222K50
	C1619	CHIP CERAMIC C.	CKSRYB103K50
	C162	ELECT. CAPACITOR	CEAT470M25
	C1620	CHIP CERAMIC C.	CKSRYB103K50
	C1621	CHIP CERAMIC C.	CKSRYB122K50
	C1623	CHIP CERAMIC C.	CCSRCH271J50
	C1625	ELECT. CAPACITOR	CEAT4R7M50
	C1626	ELECT. CAPACITOR	CEAT4R7M50
	C1627	CHIP CERAMIC C.	CKSRYB222K50
	C1628	CERAMIC CAPACITOR	CKSRYF104Z50
	C1629	CHIP CERAMIC C.	CKSRYB103K50

Mark	No.	Description	Part No.
	C163	CERAMIC CAPACITOR	CCSRCH101J50
	C1630	CHIP CERAMIC C.	CKSRYB103K50
	C1631	CERAMIC CAPACITOR	CKSRYF104Z25
	C1632	CERAMIC CAPACITOR	CKSRYF104Z25
	C1636	CHIP CERAMIC C.	CKSRYB103K50
	C1637	CHIP CERAMIC C.	CKSRYB103K50
	C1639	CHIP CERAMIC C.	CCSRCH471J50
	C164	CERAMIC CAPACITOR	CCSRCH101J50
	C1640	CERAMIC CAPACITOR	CCSRCH101J50
	C1641	CERAMIC CAPACITOR	CCSRCH101J50
	C1642	CHIP CERAMIC C.	CKSRYB103K50
	C165	ELECT. CAPACITOR	CEAT470M25
	C166	ELECT. CAPACITOR	CEAT470M25
	C167	CHIP CERAMIC C.	CCSRCH221J50
	C168	CERAMIC CAPACITOR	CKSRYB152K50
	C169	ELECT. CAPACITOR	CEAT470M25
	C170	ELECT. CAPACITOR	CEAT4R7M50
	C1701	CERAMIC CAPACITOR	CKSRYB682K50
	C1702	CERAMIC CAPACITOR	CKSRYB682K50
	C1703	CHIP CERAMIC C.	CKSRYB222K50
	C1704	CHIP CERAMIC C.	CKSRYB222K50
	C1705	CERAMIC CAPACITOR	CKSRYB104K16
	C1706	CERAMIC CAPACITOR	CKSRYB104K16
	C1707	CHIP CERAMIC C.	CCSRCH151J50
	C1708	CHIP CERAMIC C.	CCSRCH151J50
	C1709	CHIP CERAMIC C.	CKSRYB103K50
	C171	CHIP CERAMIC C.	CKSRYB103K50
	C1710	CHIP CERAMIC C.	CKSRYB103K50
	C1711	CHIP CERAMIC C.	CKSRYB103K50
	C1712	CHIP CERAMIC C.	CKSRYB103K50
	C1713	ELECT. CAPACITOR	CEAT220M25
	C1714	ELECT. CAPACITOR	CEAT220M25
	C1715	CERAMIC CAPACITOR	CKSRYB682K50
	C1716	CERAMIC CAPACITOR	CKSRYB682K50
	C1717	CHIP CERAMIC C.	CKSRYB222K50
	C1718	CHIP CERAMIC C.	CKSRYB222K50
	C1719	CERAMIC CAPACITOR	CKSRYB104K16
	C172	CHIP CERAMIC C.	CKSRYB103K50
	C1720	CERAMIC CAPACITOR	CKSRYB104K16
	C1721	CHIP CERAMIC C.	CCSRCH151J50
	C1722	CHIP CERAMIC C.	CCSRCH151J50
	C1723	CHIP CERAMIC C.	CKSRYB103K50
	C1724	CHIP CERAMIC C.	CKSRYB103K50
	C1725	CHIP CERAMIC C.	CKSRYB103K50
	C1726	CHIP CERAMIC C.	CKSRYB103K50
	C1727	ELECT. CAPACITOR	CEAT220M25
	C1728	ELECT. CAPACITOR	CEAT220M25
	C1729	CERAMIC CAPACITOR	CKSRYB682K50
	C173	CHIP CERAMIC C.	CCSRCH151J50
	C1731	CHIP CERAMIC C.	CKSRYB222K50
	C1732	CERAMIC CAPACITOR	CKSRYB682K50
	C1733	CERAMIC CAPACITOR	CKSRYB104K16
	C1734	CERAMIC CAPACITOR	CKSRYB104K16
	C1735	CHIP CERAMIC C.	CCSRCH151J50
	C1736	CERAMIC CAPACITOR	CCSRCH102J50
	C1737	CHIP CERAMIC C.	CKSRYB103K50
	C1738	CHIP CERAMIC C.	CKSRYB103K50
	C1739	ELECT. CAPACITOR	CEAT220M25
	C174	CHIP CERAMIC C.	CCSRCH151J50
	C1740	ELECT. CAPACITOR	CEAT220M25

Mark	No.	Description	Part No.
	C175	ELECT. CAPACITOR	CEAT101M16
	C176	ELECT. CAPACITOR	CEAT101M16
	C177	CHIP CERAMIC C.	CKSRYB103K50
	C178	CHIP CERAMIC C.	CKSRYB103K50
	C179	CHIP CERAMIC C.	CKSRYB103K50
	C180	CHIP CERAMIC C.	CKSRYB103K50
	C183	CHIP CERAMIC C.	CKSRYB103K50
	C184	CERAMIC CAPACITOR	CKSRYF473Z50
	C185	CERAMIC CAPACITOR	CKSRYF473Z50
	C186	CHIP CERAMIC C.	CKSRYB103K50
	C187	CHIP CERAMIC C.	CKSRYB103K50
	C188	CHIP CERAMIC C.	CKSRYB103K50
	C189	CHIP CERAMIC C.	CKSRYB103K50
	C190	CHIP CERAMIC C.	CKSRYB103K50
	C191	CHIP CERAMIC C.	CKSRYB103K50
	C192	CHIP CERAMIC C.	CKSRYB103K50
	C193	CHIP CERAMIC C.	CKSRYB103K50
	C194	ELECT. CAPACITOR	CEAT4R7M50
	C195	ELECT. CAPACITOR	CEAT4R7M50
	C197	CERAMIC CAPACITOR	CCSRCH101J50
	C198	CERAMIC CAPACITOR	CCSRCH101J50
	C199	CHIP CERAMIC C.	CKSRYB103K50
	C201	ELECT. CAPACITOR	CEAT4R7M50
	C202	CERAMIC CAPACITOR	CKSRYF104Z16
	C205	ELECT. CAPACITOR	CEAT3R3M50
	C207	CERAMIC CAPACITOR	CCSRCH101J50
	C208	CERAMIC CAPACITOR	CCSRCH101J50
	C209	CERAMIC CAPACITOR	CKSRYF104Z25

RESISTORS

⚠	R174	METAL OXIDE RESISTOR	RS1LMF101J
⚠	R175	METAL OXIDE RESISTOR	RS1LMF101J
	Other Resistors		RS1/16S□□□J

OTHERS

CN101	19P SOCKET	KP200TA19L
CN102	CONNECTOR	52045-3345
CN103	20P CONNECTOR	52045-1945
CN104	CONNECTOR	52045-1445
CN105	CONNECTOR	52045-1345
CN106	CONNECTOR	52045-1745
CN107	CONNECTOR POST	B3B-PH-K
CN1501	CONNECTOR 6P	52045-0645
JA101	PIN JACK(4P)	AKB7048
JA102	PIN JACK(4P)	AKB7048
JA103	PIN JACK(4P)	AKB7048
JA104	PIN JACK(4P)	AKB7048
101	PCB BINDER	VEF1040
102	PCB BINDER	VEF1040
X1101	CRYSTAL RESONATOR (18.432MHz)	RSS1052
X1201	CRYSTAL RESONATOR (12.288MHz)	VSS1140

Mark	No.	Description	Part No.

B AMP&PRIMARY ASSY

SEMICONDUCTORS

⚠	IC51	REGULATOR IC	NJM78M56FA
⚠	IC601	AUDIO IC	PAC010A
⚠	IC602	AUDIO IC	PAC011A
⚠	IC603	PROTECTOR(1A)	AEK7009
⚠	IC604	PROTECTOR(10A)	AEK7022
⚠	IC605	PROTECTOR(10A)	AEK7022
⚠	IC606	PROTECTOR(10A)	AEK7022
⚠	IC607	PROTECTOR(10A)	AEK7022
⚠	IC701	PROTECTOR(125mA)	AEK7020
⚠	IC702	PROTECTOR(125mA)	AEK7020
	Q51	TRANSISTOR	KRC101M
	Q601	TRANSISTOR	2SC2878
	Q602	TRANSISTOR	2SC2878
	Q603	TRANSISTOR	2SC2878
	Q604	TRANSISTOR	2SC2878
	Q605	TRANSISTOR	2SC2240
	Q606	TRANSISTOR	2SC2240
	Q631	TRANSISTOR	2SC2878
	Q632	TRANSISTOR	2SC2878
	Q633	TRANSISTOR	2SC2240
	Q651	TRANSISTOR	2SC2878
	Q652	TRANSISTOR	2SC2878
	Q653	TRANSISTOR	2SC2878
	Q654	TRANSISTOR	2SC2878
	Q655	TRANSISTOR	2SC2240
	Q656	TRANSISTOR	2SC2240
	Q691	TRANSISTOR	2SC1740S
	Q692	TRANSISTOR	2SC1740S
	Q701	TRANSISTOR	2SC4793
	Q702	TRANSISTOR	2SA1837
	Q703	TRANSISTOR	2SA1145
	Q704	TRANSISTOR	2SC1845
⚠	D51	DIODE	S5688G
⚠	D52	DIODE	S5688G
⚠	D53	DIODE	S5688G
⚠	D54	DIODE	S5688G
⚠	D55	DIODE	S5688G
	D56	DIODE	1SS133
	D58	ZINER DIODE	MTZJ5.1A
	D601	DIODE	1SS133
	D602	DIODE	1SS133
	D603	DIODE	1SS133
	D604	DIODE	1SS133
	D605	ZENER DIODE	MTZJ16A
	D606	ZENER DIODE	MTZJ16A
	D631	DIODE	1SS133
	D632	DIODE	1SS133
	D633	ZENER DIODE	MTZJ16A
	D634	ZENER DIODE	MTZJ16A
	D651	DIODE	1SS133
	D652	DIODE	1SS133
	D653	DIODE	1SS133
	D654	DIODE	1SS133
⚠	D701	DIODE	D5SBA20(B)
⚠	D702	DIODE	D5SBA20(B)

Mark	No.	Description	Part No.
	D711	ZENER DIODE	MTZJ22D
	D712	ZENER DIODE	MTZJ5.1B
⚠	D721	DIODE	S5688G
⚠	D722	DIODE	S5688G
⚠	D723	DIODE	S5688G
⚠	D724	DIODE	S5688G
	D752	DIODE	1SS133
	D756	DIODE	1SS133
	D758	DIODE	1SS133

COILS AND FILTERS

⚠	L51	LINE FILTER	ATF7018
	L751	COIL	ATH1004
	L752	COIL	ATH1004
	L753	COIL	ATH1004
	L761	COIL	ATH1004
	L762	COIL	ATH1004

SWITCHES AND RELAYS

⚠	RY51	JOE LOWPOWER RELAY	XSR3003
	RY751	RELAY	XSR3002
	RY752	RELAY	XSR3002
	RY753	RELAY	XSR3002
	RY754	RELAY	XSR3002

CAPACITORS

⚠	C51	CKA (10000pF/AC250V)	ACG7020
⚠	C52	CKA (10000pF/AC250V)	ACG7020
	C53	ELECT. CAPACITOR	CEAT102M16
	C54	ELECT. CAPACITOR	CEAT470M25
	C55	CERAMIC CAPACITOR	CGCYX103M25
	C56	CERAMIC CAPACITOR	CGCYX103M25
	C57	CERAMIC CAPACITOR	CGCYX103M25
	C601	CERAMIC CAPACITOR	CKCYB102K50
	C602	CERAMIC CAPACITOR	CKCYB102K50
	C603	CERAMIC CAPACITOR	CKCYB331K50
	C604	CERAMIC CAPACITOR	CKCYB331K50
	C605	ELECT. CAPACITOR	CEAT4R7M50
	C606	ELECT. CAPACITOR	CEAT4R7M50
	C607	CERAMIC CAPACITOR	CCCSL6R0D50
	C608	CERAMIC CAPACITOR	CCCSL6R0D50
	C609	CERAMIC CAPACITOR	CCCSL6R0D50
	C610	CERAMIC CAPACITOR	CCCSL6R0D50
	C611	ELECT. CAPACITOR	CEAT101M16
	C612	ELECT. CAPACITOR	CEAT101M16
	C615	ELECT. CAPACITOR	CEANP2R2M50
	C616	ELECT. CAPACITOR	CEANP2R2M50
	C631	CERAMIC CAPACITOR	CKCYB102K50
	C632	CERAMIC CAPACITOR	CKCYB331K50
	C633	ELECT. CAPACITOR	CEAT4R7M50
	C634	CERAMIC CAPACITOR	CCCSL6R0D50
	C635	CERAMIC CAPACITOR	CCCSL6R0D50
	C636	ELECT. CAPACITOR	CEAT101M16
	C638	ELECT. CAPACITOR	CEANP2R2M50
	C651	CERAMIC CAPACITOR	CKCYB102K50
	C652	CERAMIC CAPACITOR	CKCYB102K50
	C653	CERAMIC CAPACITOR	CKCYB331K50
	C654	CERAMIC CAPACITOR	CKCYB331K50
	C655	ELECT. CAPACITOR	CEAT4R7M50
	C656	ELECT. CAPACITOR	CEAT4R7M50
	C657	CERAMIC CAPACITOR	CCCSL6R0D50
	C658	CERAMIC CAPACITOR	CCCSL6R0D50
	C659	CERAMIC CAPACITOR	CCCSL6R0D50
	C660	CERAMIC CAPACITOR	CCCSL6R0D50
	C661	ELECT. CAPACITOR	CEAT101M16
	C662	ELECT. CAPACITOR	CEAT101M16
	C665	ELECT. CAPACITOR	CEANP2R2M50
	C666	ELECT. CAPACITOR	CEANP2R2M50
	C691	CERAMIC CAPACITOR	CKCYB102K50
	C692	ELECT. CAPACITOR	CEAT221M10
	C701	E.CAPACITOR(4700µF/71V)	ACH7137
	C702	E.CAPACITOR(4700µF/71V)	ACH7137
	C703	E.CAPACITOR(3300µF/42V)	ACH7135
	C704	E.CAPACITOR(3300µF/42V)	ACH7135
	C705	ELECT. CAPACITOR	CEAT100M2A
	C706	ELECT. CAPACITOR	CEAT100M2A
	C707	CKA (0.01µF/AC250V)	ACG1005
	C708	CKA (0.01µF/AC250V)	ACG1005
	C711	ELECT. CAPACITOR	CEAT101M35
	C712	ELECT. CAPACITOR	CEAT101M10
	C751	AUDIO FILM CAPACITOR	CFTYA104J50
	C752	AUDIO FILM CAPACITOR	CFTYA104J50
	C755	AUDIO FILM CAPACITOR	CFTYA104J50
	C761	AUDIO FILM CAPACITOR	CFTYA104J50
	C762	AUDIO FILM CAPACITOR	CFTYA104J50

RESISTORS

⚠	R51	RESISTOR (2.2MΩ/ 1/2W)	RCN1080
⚠	R52	CARBON FILM RESISTOR	RD1/2PM270J
⚠	R615	RESISTOR (0.22Ω/5W)	XCN3001
⚠	R616	RESISTOR (0.22Ω/5W)	XCN3001
⚠	R638	RESISTOR ((0.22Ω/5W)	XCN3001
⚠	R665	RESISTOR (0.22Ω/5W)	XCN3001
⚠	R666	RESISTOR (0.22Ω/5W)	XCN3001
⚠	R711	METAL OXIDE RESISTOR	RS2LMF392J
⚠	R751	CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R752	CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R753	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R754	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R755	CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R756	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R761	CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R762	CARBON FILM RESISTOR	RD1/4PUF101J
⚠	R763	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R764	METAL OXIDE RESISTOR	RS1LMF4R7J
	Other Resistors		RD1/4PU□□□J

OTHERS

	51	AC SOCKET 1-P	AKP1060
	701	7P CABLE HOLDER	51048-0700
	CN51	AC CODE SOCKET	RKP1751
	CN53	22P CONNECTOR	52045-2245
	CN601	16P PLUG	KM200TA16
	CN751	SPEAKER TERMINAL 6-P	AKE7060
	CN752	SPEAKER TERMINAL 8-P	AKE7058
	CN753	PIN JACK 1-P	XKB3008
	H51	FUSE CLIP	AKR7001
	H52	FUSE CLIP	AKR7001
	H53	FUSE CLIP	AKR7001
	H54	FUSE CLIP	AKR7001
	H701	FUSE CLIP	AKR7001
	H702	FUSE CLIP	AKR7001
⚠	T51	STANDBY TRANSFORMER	ATT7057
	KN51	EARTH METAL FITTING	VNF1084
	KN601	EARTH METAL FITTING	VNF1084

Mark	No.	Description	Part No.

C TRANS2 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC851	PROTECTOR(1.6A)	AEK7012
⚠	IC852	PROTECTOR(1.6A)	AEK7012
⚠	IC853	PROTECTOR(1.6A)	AEK7012

OTHERS

Mark	No.	Description	Part No.
	851	7P CABLE HOLDER	51048-0700

D TRANS3 ASSY

TRANS3 ASSY has no service part.

E REGULATOR ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC801	REGULATOR IC	NJM78M12FA
	IC802	REGULATOR IC	NJM79M12FA
	IC803	REGULATOR IC	NJM78M05FA
	IC804	REGULATOR IC	NJM78M05FA
	Q801	TRANSISTOR	KRA103M
	Q802	TRANSISTOR	KRC101M
	Q803	TRANSISTOR	KRA103M
	Q804	TRANSISTOR	KRC101M
	Q805	TRANSISTOR	KRA103M
	Q806	TRANSISTOR	KRC101M
⚠	D801	DIODE	S5688G
⚠	D802	DIODE	S5688G
⚠	D803	DIODE	S5688G
⚠	D804	DIODE	S5688G

CAPACITORS

Mark	No.	Description	Part No.
	C801	ELECT. CAPACITOR	CEAT222M25
	C802	ELECT. CAPACITOR	CEAT222M25
	C803	CERAMIC CAPACITOR	CGCYX103M25
	C804	CERAMIC CAPACITOR	CGCYX103M25
	C805	ELECT. CAPACITOR	CEAT101M16
	C806	ELECT. CAPACITOR	CEAT101M16
	C807	CERAMIC CAPACITOR	CGCYX103M25
	C808	ELECT. CAPACITOR	CEAT101M10
	C809	ELECT. CAPACITOR	CEAT222M16
	C810	CERAMIC CAPACITOR	CGCYX103M25
	C811	ELECT. CAPACITOR	CEAT101M10

RESISTORS

Mark	No.	Description	Part No.
	R801	METAL OXIDE RESISTOR	RS3LMF101J

OTHERS

Mark	No.	Description	Part No.
	CN801	22P CONNECTOR	52045-2245
	CN802	19P PLUG	KM200TA19
	CN803	5P PLUG	KM200TA5

F AMP INPUT ASSY

OTHERS

Mark	No.	Description	Part No.
	CN253	16P SOCKET	KP200TA16L
	CN254	17P CONNECTOR	52044-1745

G TRANS1 ASSY

TRANS1 ASSY has no service part.

H VIDEO&6CH IN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC301	VIDEO SW IC	NJM2296M
	IC302	IC	NJM4558MD
	IC303	IC	NJM4558MD
	Q301	TRANSISTOR	2SC3377
	Q302	TRANSISTOR	2SA1515
	Q303	TRANSISTOR	2SC2878
	D301	DIODE	1SS355
	D302	DIODE	1SS355
	D303	CHIP ZENER DIODE	UDZS6.2B
	D304	CHIP ZENER DIODE	UDZS6.2B
	D305	DIODE	1SS355
	D306	DIODE	1SS355

CAPACITORS

Mark	No.	Description	Part No.
	C302	CHIP CERAMIC C.	CKSRYB103K50
	C304	CERAMIC CAPACITOR	CKSRYB221K50
	C305	CERAMIC CAPACITOR	CKSRYB221K50
	C306	CERAMIC CAPACITOR	CKSRYB221K50
	C307	ELECT. CAPACITOR	CEAT470M25
	C308	ELECT. CAPACITOR	CEAT470M25
	C309	ELECT. CAPACITOR	CEAT470M25
	C310	ELECT. CAPACITOR	CEAT470M25
	C311	CERAMIC CAPACITOR	CKSRYB473K25
	C312	ELECT. CAPACITOR	CEAT470M25
	C313	CERAMIC CAPACITOR	CKSRYB473K25
	C314	ELECT. CAPACITOR	CEAT470M25
	C315	CHIP CERAMIC C.	CKSRYB103K50
	C316	CHIP CERAMIC C.	CKSRYB103K50
	C317	CERAMIC CAPACITOR	CKSRYB221K50
	C318	CERAMIC CAPACITOR	CKSRYB221K50
	C319	CERAMIC CAPACITOR	CCSRCH101J50
	C320	CERAMIC CAPACITOR	CCSRCH101J50
	C321	ELECT. CAPACITOR	CEAT4R7M50
	C322	CHIP CERAMIC C.	CKSRYB103K50
	C323	CHIP CERAMIC C.	CKSRYB103K50
	C324	ELECT. CAPACITOR	CEAT4R7M50
	C325	CERAMIC CAPACITOR	CKSRYB221K50
	C326	CERAMIC CAPACITOR	CKSRYB221K50
	C327	CERAMIC CAPACITOR	CCSRCH101J50
	C328	CERAMIC CAPACITOR	CCSRCH101J50
	C329	CHIP CERAMIC C.	CKSRYB103K50
	C330	CHIP CERAMIC C.	CKSRYB103K50
	C331	ELECT. CAPACITOR	CEAT4R7M50
	C332	ELECT. CAPACITOR	CEAT4R7M50
	C333	CERAMIC CAPACITOR	CKSRYB331K50
	C338	ELECT. CAPACITOR	CEAT470M25
	C339	CERAMIC CAPACITOR	CKSRYB104K25
	C340	CERAMIC CAPACITOR	CKSRYB104K25
	C342	CERAMIC CAPACITOR	CCSRCH101J50
	C343	CERAMIC CAPACITOR	CCSRCH101J50
	C344	CERAMIC CAPACITOR	CCSRCH101J50
	C345	CERAMIC CAPACITOR	CCSRCH101J50
	C346	CHIP CERAMIC C.	CKSRYB103K50
	C347	CHIP CAPACITOR	CCSRCH470J50

Mark	No.	Description	Part No.
RESISTORS			
	R313	METAL OXIDE RESISTOR	RS3LMF390J
	R316	METAL OXIDE RESISTOR	RS3LMF390J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN301	11P SOCKET	KP200TA11L
	CN302	5P SOCKET	KP200TA5L
	CN303	14P CONNECTOR	52044-1445
	CN305	6P PIN JACK	AKB7123
	CN307	PIN JACK(4P)	AKB7087
	JA301	JACK	RKN1004

I H.P. ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q1551	CHIP MUTING TR	2SC3326
	Q1552	CHIP MUTING TR	2SC3326
CAPACITORS			
	C1551	CERAMIC CAPACITOR	CKSRYB104K16
	C1552	CHIP CERAMIC C.	CKSRYB103K50
	C1553	CHIP CERAMIC C.	CCSRCH471J50
	C1555	CHIP CERAMIC C.	CKSRYB223K50
	C1556	CHIP CERAMIC C.	CKSRYB223K50
RESISTORS			
⚠	R1551	METAL OXIDE RESISTOR	RS1/2LMF121J
⚠	R1552	METAL OXIDE RESISTOR	RS1/2LMF121J
	Other Resistors		RS1/16S□□□J
OTHERS			
	1551	CABLE HOLDER(4P)	51063-0405
	JA1551	JACK	RKN1002
	KN1551	EARTH METAL FITTING	VNF1084

J DIGITAL IN ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC1901	LOGIC IC	TC74ACT151F
	IC1902	LOGIC IC	TC74HCU04AF
COILS AND FILTERS			
	F1901	CHIP BEAD	DTF1067
	F1902	CHIP BEAD	DTF1067
	F1903	CHIP BEAD	DTF1067
	F1904	CHIP BEAD	DTF1067
CAPACITORS			
	C1901	CERAMIC CAPACITOR	CKSRYB104K25
	C1902	CERAMIC CAPACITOR	CKSRYB104K25
	C1903	CERAMIC CAPACITOR	CKSRYB104K25
	C1904	ELECT. CAPACITOR	CEAT101M10
	C1905	ELECT. CAPACITOR	CEAT101M10
	C1906	CHIP CERAMIC C.	CKSRYB103K50
	C1907	CHIP CERAMIC C.	CCSRCH271J50
	C1908	CERAMIC CAPACITOR	CKSRYB104K25
	C1909	CERAMIC CAPACITOR	CKSRYB104K25
	C1910	CHIP CERAMIC C.	CKSRYB103K50
	C1911	CERAMIC CAPACITOR	CCSRCH560J50
	C1912	ELECT. CAPACITOR	CEAT101M10
	C1913	CHIP CERAMIC C.	CKSRYB103K50
	C1914	CHIP CERAMIC C.	CCSRCH271J50
	C1915	CHIP CERAMIC C.	CKSRYB102K50
	C1916	CHIP CERAMIC C.	CCSRCH471J50
	C1917	CHIP CERAMIC C.	CCSRCH220J50
	C1918	CHIP CERAMIC C.	CCSRCH221J50
	C1919	CHIP CERAMIC C.	CKSRYB103K50
	C1920	CHIP CERAMIC C.	CKSRYB103K50
	C1921	CERAMIC CAPACITOR	CKSRYB104K25
	C1922	CERAMIC CAPACITOR	CKSRYB104K25
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	CN1901	CONNECTOR 6P	52045-0645
	JA1901	JACK	VKB1077
	JA1902	OPTICAL RECEIV MOD.	GP1F32R
	JA1903	OPTICAL RECEIV MOD.	GP1F32R
	JA1904	OPTICAL LINK OUT	GP1F32T

K FRONT ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC401	CONTROL MCU	PDG260A
	Q401	CHIP DIGITAL TRANS.	DTA124EK
	Q402	CHIP DIGITAL TRANS.	DTA124EK
	Q403	DIGITAL TRANSISTOR	DTC143EK
	Q404	DIGITAL TRANSISTOR	DTC143EK
	Q405	CHIP TANSISTOR	2SA1037K
	Q441	DIGITAL TRANSISTOR	DTC143EK
	Q442	CHIP DIGITAL TRANS.	DTA124EK
	Q471	CHIP DIGITAL TRANS.	DTA124EK
	D401	CHIP DIODE ARRAY	DAP202K
	D403	DIODE	DAN217
	D404	CHIP DIODE ARRAY	DAP202K
	D405	DIODE	DAN217
	D407	DIODE	1SS355
	D408	DIODE	1SS355
	D442	DIODE	1SS355
COILS AND FILTERS			
	L401	RADIAL INDUCTOR	LFEA2R2J
SWITCHES AND RELAYS			
	S451	SWITCH	ASG1051
	S452	SWITCH	ASG1051
	S453	SWITCH	ASG1051
	S454	SWITCH	ASG1051
	S455	SWITCH	ASG1051
	S456	SWITCH	ASG1051
	S457	SWITCH	ASG1051
	S458	SWITCH	ASG1051
	S459	SWITCH	ASG1051
	S460	SWITCH	ASG1051
	S461	SWITCH	ASG1051
	S462	SWITCH	ASG1051
	S463	SWITCH	ASG1051
	S464	SWITCH	ASG1051
	S465	SWITCH	ASG1051
	S476	SWITCH	ASG1051

Mark	No.	Description	Part No.
CAPACITORS			
	C401	CHIP CERAMIC C.	CKSRYB103K50
	C402	ELECT. CAPACITOR	CEAT221M6R3
	C403	CHIP CERAMIC C.	CKSRYB103K50
	C404	EDL C. (0.047F/5.5V)	ACH7132
	C405	ELECT. CAPACITOR	CEJQ221M6R3
	C406	CERAMIC CAPACITOR	CKSRYB473K16
	C407	CERAMIC CAPACITOR	CKSRYB473K16
	C408	CERAMIC CAPACITOR	CKSRYB104K16
	C409	ELECT. CAPACITOR	CEAT2R2M50
	C410	ELECT. CAPACITOR	CEAT2R2M50
	C411	CHIP CERAMIC C.	CKSRYB103K50
	C412	ELECT. CAPACITOR	CEAT470M50
	C416	CERAMIC CAPACITOR	CKSRYB104K16
	C418	CERAMIC CAPACITOR	CKSRYB104K16
	C419	CHIP CERAMIC C.	CKSRYB103K50
	C420	E. CAPACIT(220µF/35V)	ACH7101
	C441	CHIP CERAMIC C.	CKSRYB103K50
	C442	ELECT. CAPACITOR	CEJQ470M10
	C451	CHIP CERAMIC C.	CKSRYB102K50
	C452	CHIP CERAMIC C.	CKSRYB102K50
	C453	CHIP CERAMIC C.	CKSRYB102K50
	C471	CERAMIC CAPACITOR	CKSRYB104K16
	C491	CERAMIC CAPACITOR	CKSRYB104K16
	C492	CERAMIC CAPACITOR	CKSRYB104K16
	C493	CERAMIC CAPACITOR	CKSRYB104K16
	C494	CERAMIC CAPACITOR	CKSRYB104K16
	C495	CHIP CERAMIC C.	CKSRYB102K50
	C496	CERAMIC CAPACITOR	CKSRYB104K25
	C497	CERAMIC CAPACITOR	CKSRYB104K16
	C531	CHIP CERAMIC C.	CKSRYB103K50
	C532	CERAMIC CAPACITOR	CKSRYB223K25
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	401	REMOTE RECEIVER UNIT	GP1U28X
	403	CABLE HOLDER(4P)	51063-0405
	404	CABLE HOLDER(6P)	51063-0605
	471	CABLE HOLDER(4P)	51063-0405
	CN401	19P CONNECTOR	52044-1945
	CN402	33P CONNECTOR	52044-3345
	V401	FL TUBE	XAV3010
	X401	CERAMIC RESONATOR (7.2MHz)	ASS7018

L R.ENCODER ASSY

Mark	No.	Description	Part No.
SWITCHES AND RELAYS			
	S511	SWITCH	ASG1051
	S512	ROTARY ENCODER	XSX3006
	S513	ROTARY ENCODER	XSX3005
OTHERS			
	511	CABLE HOLDER(6P)	51063-0605

M POWER SW ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	D501	LED	BR3371XJ30A
SWITCHES AND RELAYS			
	S501	SWITCH	ASG1051
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	501	CABLE HOLDER(4P)	51063-0405

N S. VIDEO ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC351	VIDEO SW IC	NJM2296M
	IC352	VIDEO SW IC	NJM2296M
	D351	DIODE	1SS355
	D352	DIODE	1SS355
	D353	DIODE	1SS355
	D354	DIODE	1SS355
CAPACITORS			
	C351	CERAMIC CAPACITOR	CKSRYB104K25
	C352	ELECT. CAPACITOR	CEAT470M25
	C353	CERAMIC CAPACITOR	CKSRYB104K25
	C354	CERAMIC CAPACITOR	CKSRYB104K25
	C355	ELECT. CAPACITOR	CEAT470M25
	C356	CERAMIC CAPACITOR	CKSRYB104K25
	C357	CERAMIC CAPACITOR	CKSRYB104K25
	C358	ELECT. CAPACITOR	CEAT470M25
	C359	CERAMIC CAPACITOR	CKSRYB104K25
	C361	ELECT. CAPACITOR	CEAT470M25
	C362	ELECT. CAPACITOR	CEAT470M25
	C363	ELECT. CAPACITOR	CEAT470M25
	C364	CERAMIC CAPACITOR	CKSRYB221K50
	C365	CERAMIC CAPACITOR	CKSRYB221K50
	C366	ELECT. CAPACITOR	CEAT470M25
	C367	CERAMIC CAPACITOR	CKSRYB104K25
	C368	CERAMIC CAPACITOR	CKSRYB221K50
	C369	CERAMIC CAPACITOR	CKSRYB221K50
	C370	CERAMIC CAPACITOR	CKSRYB221K50
	C371	CERAMIC CAPACITOR	CKSRYB221K50
	C372	CHIP CERAMIC C.	CKSRYB103K50
	C373	CHIP CERAMIC C.	CKSRYB103K50
	C375	CHIP CAPACITOR	CCSRCH470J50
	C376	CHIP CAPACITOR	CCSRCH470J50
RESISTORS			
	All Resistors		RS1/16S□□□J
OTHERS			
	CN351	9P SOCKET	KP200TA9L
	CN352	SOCKET	AKP7043
	CN353	SOCKET	AKP7020
	CN354	CONNECTOR POST	B5B-PH-K

Mark	No.	Description	Part No.

O BOARD TO BOARD ASSY

OTHERS

CN390	11P PLUG	KM200TA11
CN391	9P PLUG	KM200TA9
CN392	CONNECTOR	52045-0545

P FRONT VIDEO ASSY

CAPACITORS

C901	CERAMIC CAPACITOR	CKSRYB221K50
C902	CERAMIC CAPACITOR	CKSRYB221K50
C903	ELECT. CAPACITOR	CEJQ470M25
C904	CERAMIC CAPACITOR	CKSRYB104K25
C905	ELECT. CAPACITOR	CEJQ470M25
C906	CERAMIC CAPACITOR	CKSRYB104K25
C907	CERAMIC CAPACITOR	CKSRYB471K50
C908	CHIP CERAMIC C.	CKSRYB103K50
C909	CERAMIC CAPACITOR	CKSRYB104K25
C910	CERAMIC CAPACITOR	CKSRYB471K50
C911	CHIP CERAMIC C.	CKSRYB103K50
C912	CERAMIC CAPACITOR	CKSRYB104K25
C913	CERAMIC CAPACITOR	CKSRYB471K50
C914	CHIP CERAMIC C.	CKSRYB103K50

RESISTORS

All Resistors		RS1/16S□□□J

OTHERS

JA902	PIN JACK(4P)	AKX7014

Q COMPORNENT ASSY

SEMICONDUCTORS

IC5501	LOGIC IC	TC74HC4053AF
IC5502	VIDEO AMP IC	TK15420M
IC5503	VIDEO AMP IC	TK15420M

CAPACITORS

C5501	ELECT. CAPACITOR	CEAT101M10
C5502	ELECT. CAPACITOR	CEAT101M10
C5503	ELECT. CAPACITOR	CEAT101M10
C5504	ELECT. CAPACITOR	CEAT101M10
C5505	CHIP CERAMIC C.	CKSRYB103K50
C5506	CHIP CERAMIC C.	CKSRYB103K50
C5507	ELECT. CAPACITOR	CEAT101M10
C5508	ELECT. CAPACITOR	CEAT101M10
C5509	CHIP CERAMIC C.	CKSRYB103K50
C5510	CHIP CERAMIC C.	CKSRYB103K50
C5511	CHIP CERAMIC C.	CKSRYB103K50
C5512	CHIP CERAMIC C.	CKSRYB103K50
C5516	CHIP CERAMIC C.	CKSRYB103K50
C5518	CHIP CERAMIC C.	CKSRYB103K50

RESISTORS

All Resistors		RS1/16S□□□J

OTHERS

CN5501	CONNECTOR	52045-0545
JA5501	6P RCA PINJACK	AKB7128
JA5503	3P RCA PINJACK	AKB7124

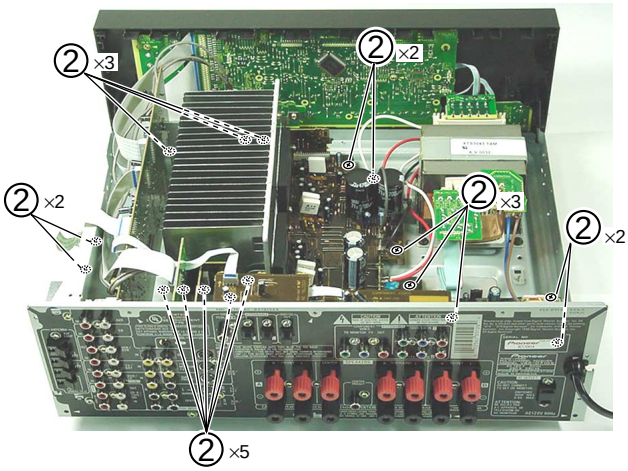
6. ADJUSTMENT

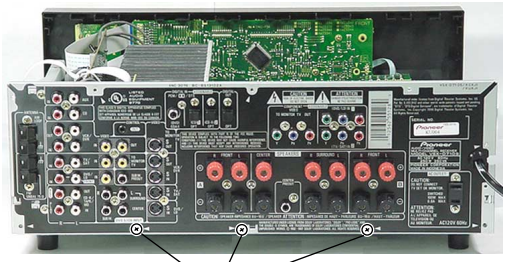
There is no information to be shown in this chapter.

7. GENERAL INFORMATION
7.1 DISASSEMBLY AND DIAGNOSIS

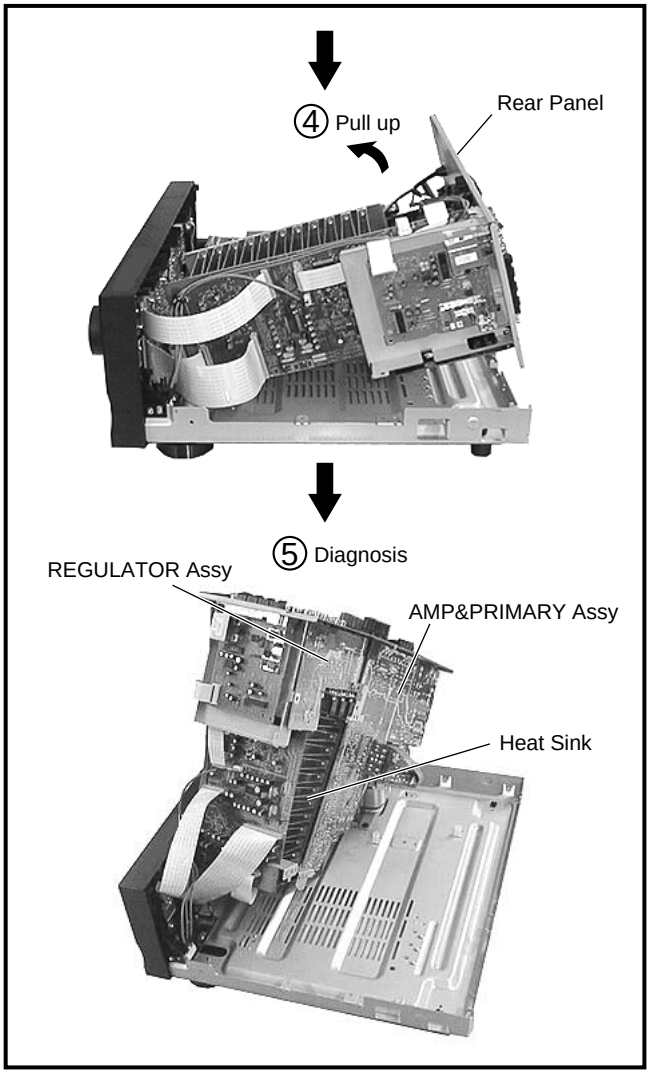
■ Diagnosis

① Remove the Bonnet (seven screws).



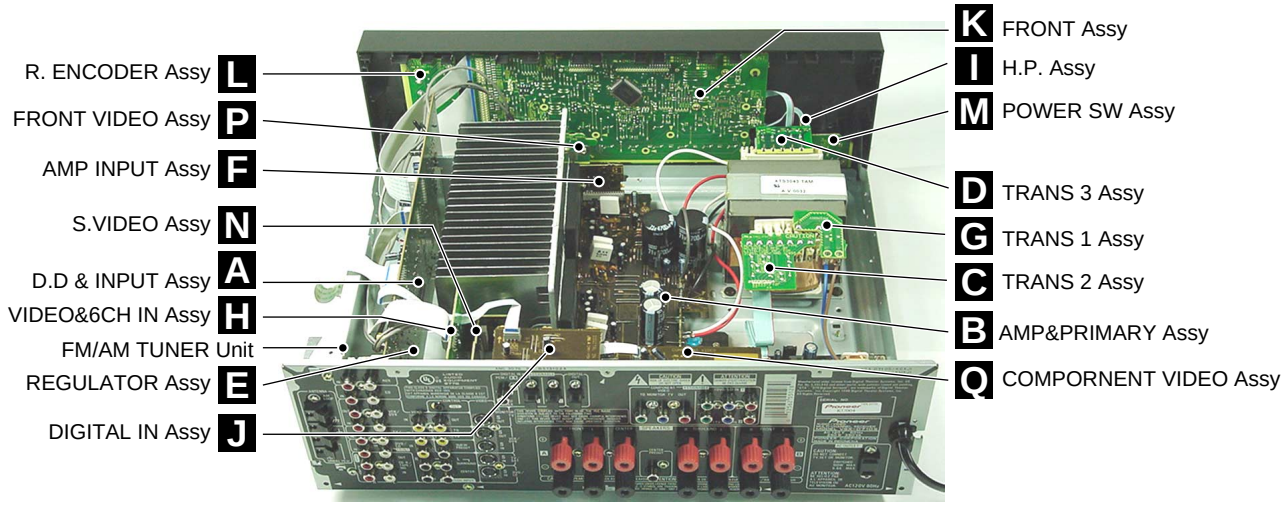


Note : This photograph shows other models.
However, the work method is the same.



Note : The product does not operate when took off the screws of Speaker Terminal from Rear Panel.

■ PCB Location

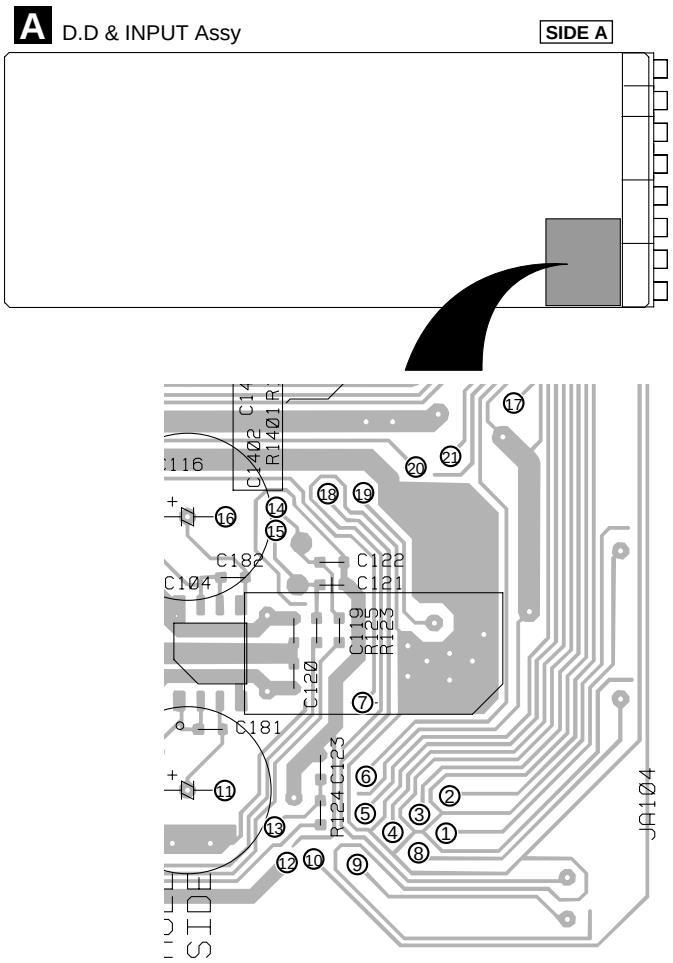


■ Diagnosis of D.D & INPUT Assy

① Remove FM/AM TUNER Unit and Shield R3 (five screws).
Please check SIDE A of the D.D & INPUT Assy on this status.

Note : When FM/AM TUNER Unit was removed, the product operates except FM/AM TUNER.

Please check IC101 mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC 101 are shown as follows.



7.2 PARTS

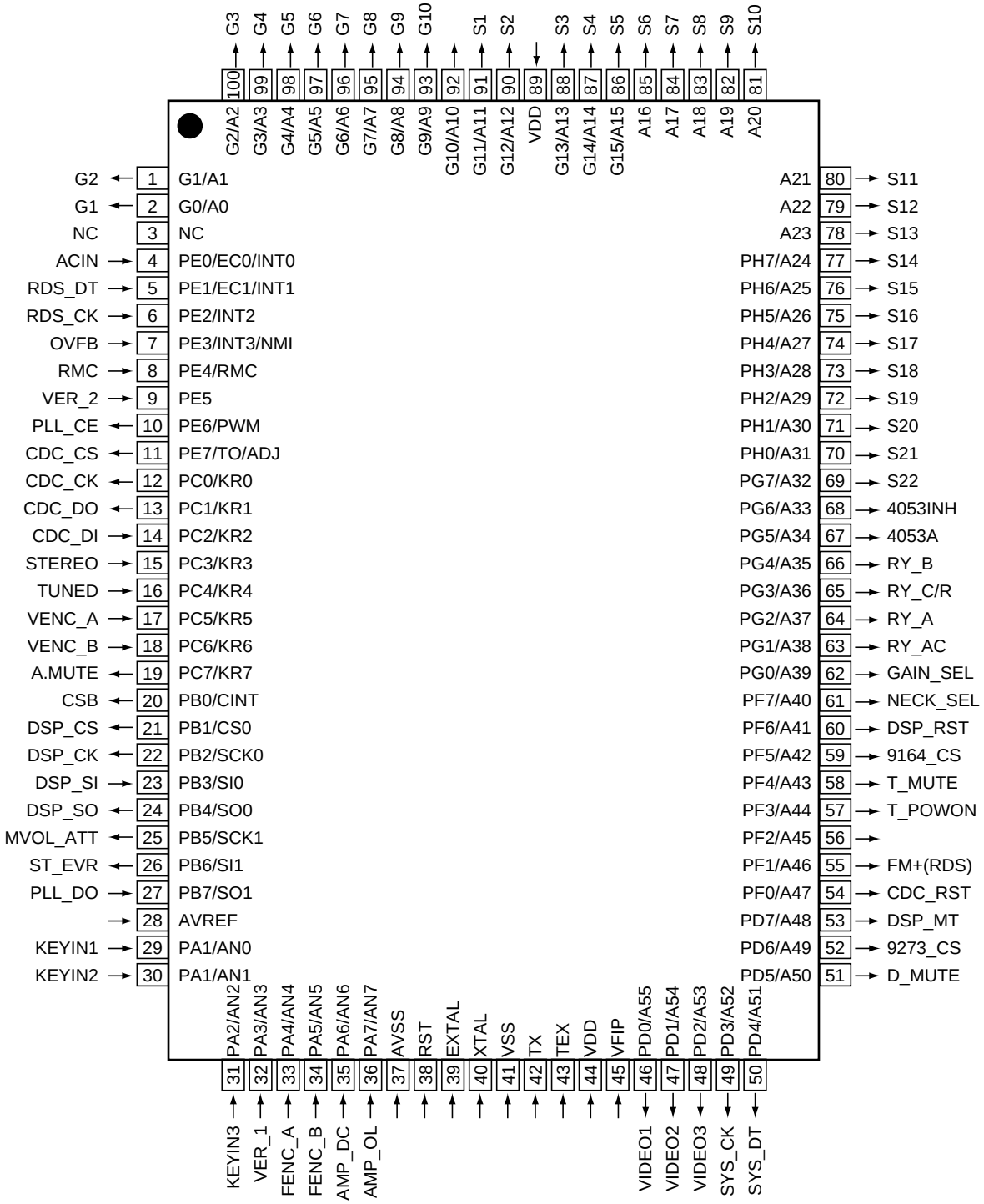
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG260A (FRONT ASSY : IC401)

• System Control MCU

● Pin Arrangement (Top View)



● Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to VDD	
4	ACIN	I	AC pulse input	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication	
7	DIRLOCK	I	ERR/OVER input from CODEC	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	VER_2	I	Destination switch 2	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	CDC_CS	O	CODEC chip serect	
12	CDC_CK	O	CODEC, TC9164 control clock	
13	CDC_DO	O	CODEC, TC9164 control data output	
14	CDC_DI	I	Data input from CODEC	
15	STEREO	I	Stereo/Monoral signal judgment signal	
16	TUNED	I	TUNED information	
17	ENC_A	I	EVOL Rotary encoder signal input A	
18	ENC_B	I	EVOL Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	CSB	O	Chip select for control of YSS912 sub DSP	L
21	DSP_CS	O	Chip select for control of YSS912 main DSP	L
22	DSP_CK	O	Clock signal for communication with YSS912	H
23	DSP_SI	I	DATA input signal for communication with YSS912	
24	DSP_SO	O	DATA output signal for communication with YSS912	H
25	MVRATT	O	ATT control of master volume (L : Less than -15dB)	H
26	ST_EVR	O	Strobe signal for communication with electric volume IC	H
27	PLL_DO	I	Data input signal for communication with LC72131 (tuner)	
28	AVref	–	Connect to VDD	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	VER_1	I	Destination switch (A/D input)	
33	FENC_A	I	FUNC Rotary encoder signal input A	
34	FENC_B	I	FUNC Rotary encoder signal input B	
35	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection) *1	L
36	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection) *2	L
37	AVSS	–	Connect to VSS	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.2MHz)	
40	XTAL	–		
41	VSS	–	Connect to VSS	
42	TX	–	Open	
43	TEX	–	Connect to VSS	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

*1 : When DC voltage was output from amplifier, "POWER OFF" is displayed at FL display.

*2 : When the output of amplifier became overload state, "OVER LOAD" is displayed at FL display.

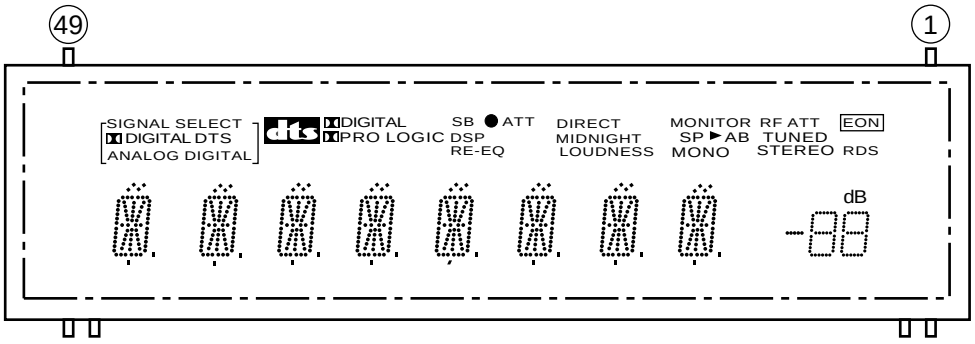
No.	Pin Name	I/O	Pin Function	Active
51	D_MUTE	O	Digital mute (Not used)	H
52	9273_CS	O	TC9273 Chip select	H
53	DSP_MT	O	DSP mute (ASSY mute)	H
54	CDC_RST	O	CODEC reset	H
55	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
56	Not used	–		
57	T_POWON	O	Tuner module ON/OFF (North America model only)	H
58	T_MUTE	O	Tuner mute	H
59	9164 CS	O	TC9163, TC9164 Chip select	
60	DSP_RST	O	YSS912 reset	
61	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	
62	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
63	RY_AC	O	AC relay ON/OFF	H
64	RY_A	O	Speaker A relay ON/OFF	H
65	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
66	RY_B	O	Speaker B relay ON/OFF	H
67	4053A	O	Component terminal control	H
68	4053INH	O	Component terminal control	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92	Not used	O	Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

7.2.2 DISPLAY

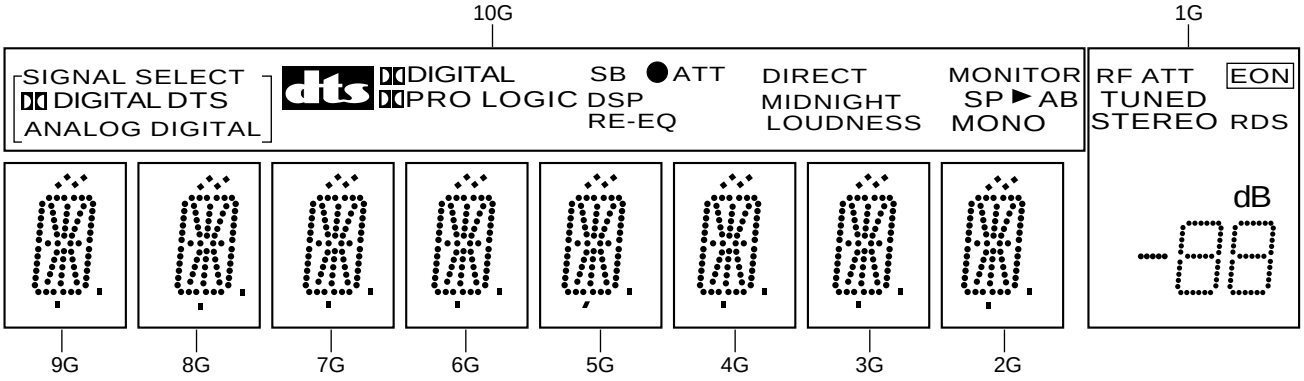
■ XAV3010 (FRONT ASSY : V401)

• FL DISPLAY

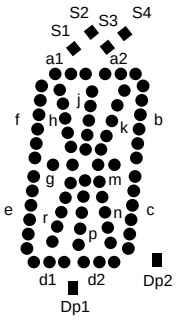
• Pin Assignment



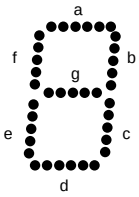
• Grid Assignment



• Segment Designation



(9G to 2G)



(1G)

• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 10G..... Grid
6) Field of vision is a minimum of 29° from the lower side.

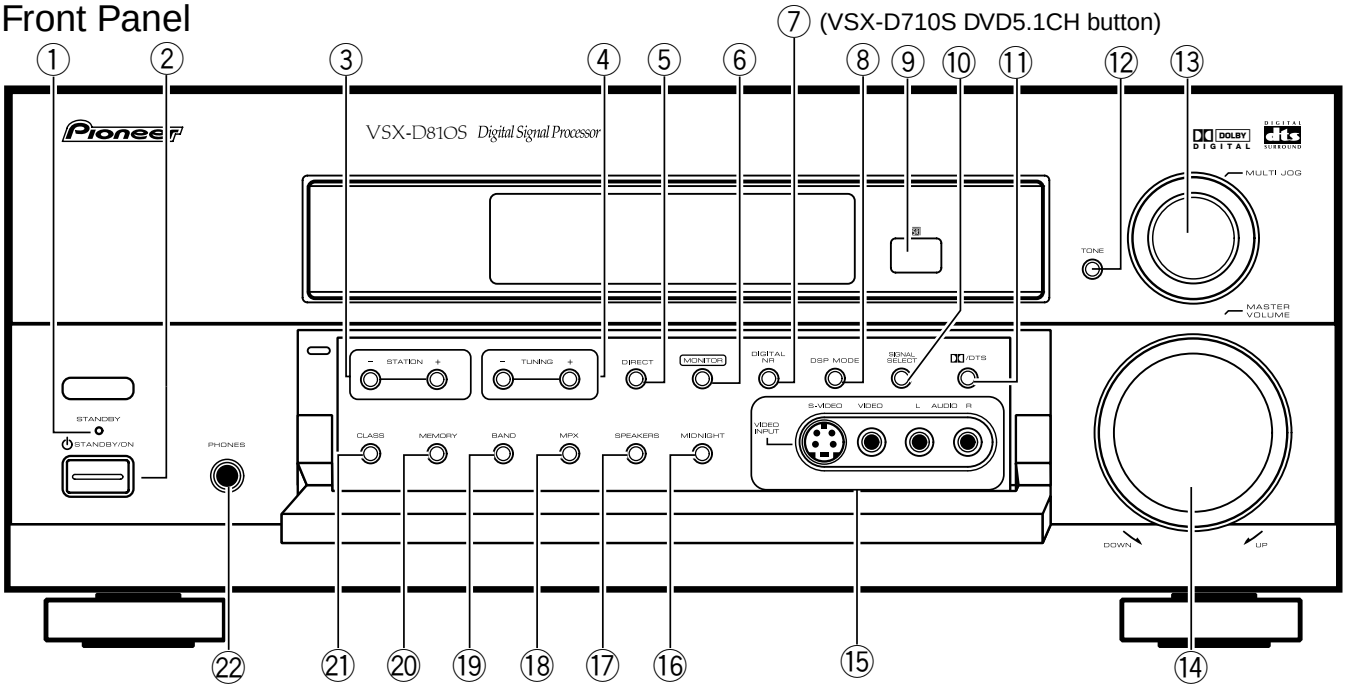
• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	MONO	a1	a1	a1	a1	a1	a1	a1	a1	dB
P2	B	a2	a2	a2	a2	a2	a2	a2	a2	2a
P3	A	h	h	h	h	h	h	h	h	2b
P4	SP ►	j	j	j	j	j	j	j	j	2f
P5	MONITOR	k	k	k	k	k	k	k	k	2g
P6	LOUDNESS	b	b	b	b	b	b	b	b	2c
P7	MIDNIGHT	f	f	f	f	f	f	f	f	2e
P8	DIRECT	m	m	m	m	m	m	m	m	2d
P9	DNR	g	g	g	g	g	g	g	g	1a
P10	ATT	c	c	c	c	c	c	c	c	1b
P11	●	e	e	e	e	e	e	e	e	1f
P12	DSP	r	r	r	r	r	r	r	r	1g
P13	SB	p	p	p	p	p	p	p	p	1c
P14	PRO LOGIC	n	n	n	n	n	n	n	n	1e
P15	DIGITAL	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	dts	d2	d2	d2	d2	d2	d2	d2	d2	•••••
P17	ANALOG	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	RDS
P18	DIGITAL	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	RF ATT
P19	[ ]	S1	S1	S1	S1	S1	S1	S1	S1	EON
P20	DTS	S4	S4	S4	S4	S4	S4	S4	S4	▭
P21	DIGITAL	S2	S2	S2	S2	S2	S2	S2	S2	TUNED
P22	SIGNAL SELECT	S3	S3	S3	S3	S3	S3	S3	S3	STEREO

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel



① **STANDBY indicator**
Lights when the receiver is in standby mode (note that the receiver consumes a small amount of power (1W) in standby mode).

② ⏻ **STANDBY/ON button**
Switches the receiver between on and standby (note that the receiver consumes a small amount of power (1W) in standby mode).

③ **STATION (+/–) buttons**
Selects station memories when using the tuner.

④ **TUNING (+/–) buttons**
Selects the frequency when using the tuner.

⑤ **DIRECT button**
Use to switch DIRECT playback on or off. This mode bypasses the tone controls, channel levels, DD/DTS and DSP modes for the most accurate reproduction of a program source.

⑥ **MONITOR button**
Press to switch tape monitoring on/off.

⑦ **DVD5.1CH button (VSX-D710S)**
On the VSX-D710S this button switches between DVD5.1CH input and regular DVD input.

⑧ **DSP MODE button**
Use to switch between the various DSP modes available **(HALL1, HALL 2, JAZZ, DANCE, THEATER1, THEATER 2,** and **DSP off**. Use this button to create different surround sound effects from any stereo source.

⑨ **Remote sensor**
Receives the signals from the remote control.

⑩ **SIGNAL SELECT button**
Use to select an analog or digital signal.

⑪ **DD /DTS button**
Use to switch between the various Dolby/DTS surround modes.

⑫ **TONE button**
This button allows you to activate the BASS & TREBLE controls. To adjust the BASS and/or TREBLE use the MULTI JOG DIAL. Tone can only be used in 2 channel stereo sound mode. The tones controls have no effect on the B speaker system.

⑬ **MULTI JOG dial**
You can use this dial for two purposes. Firstly, in normal mode turn it to select a source component. Secondly, use it to adjust the BASS and/or TREBLE levels when the TONE button has been activated (as explained above).

⑭ **MASTER VOLUME**
Use to set the overall listening volume.

⑮ **VIDEO INPUT jacks**
Connect a video camera, video game system, etc. to the **VIDEO INPUT** jacks.

⑯ **MIDNIGHT button**
Use when listening to movie soundtracks at low volume. This feature will enable you to hear quiet sounds and not get jolted by loud or sudden sound effects.

⑰ **SPEAKERS button**
Use to switch the speaker system **A → B → A+B → off**. In **B** and **A+B** speaker modes you hear only 2 channel stereo sound.

⑱ **MPX button**
If the **TUNED** or **STEREO** indicators don't light when tuning to an FM station because the signal is weak, press the MPX button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

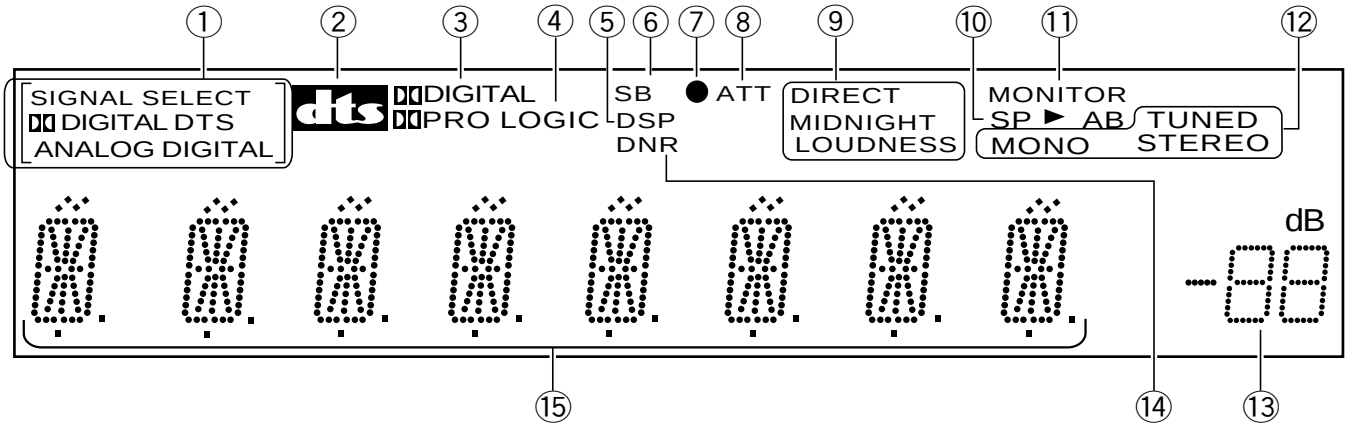
⑲ **BAND button**
Press to select the AM or FM band.

⑳ **MEMORY button**
Press to memorize a station for recall using the **STATION (+/–)** buttons.

㉑ **CLASS button**
Switches between the three banks (classes) of station memories.

㉒ **PHONES jack**
Use to connect headphones but this does not switch the speakers off.

Display



① **SIGNAL SELECT indicators**
Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑩ SIGNAL SELECT).
DIGITAL : Lights when a DOLBY DIGITAL signal is played.
DTS: Lights when a source with DTS audio signals is played.
ANALOG : Lights when an analog signal is selected.
DIGITAL : Lights when a digital audio signal is selected.

② **DTS indicator**
Lights when DTS mode is being used.

③ **DIGITAL indicator**
When the (DOLBY)/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Digital signal. However, PRO LOGIC lights during channel playback of Dolby Digital.

④ **PRO LOGIC indicator**
When the (DOLBY)/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Pro Logic source.

⑤ **DSP indicator**
Lights when any Advanced Theater or DSP mode is selected.

⑥ **Surround Back indicator (Not used for VSX-D710S)**
Lights when most Surround Back channel flag encoded (6.1channel) software is playing. (With some Surround Back channel software the surround back indicator won't light because there is no flag encoded in the software.) If you play DTS 5.1/6.1 channel software surround sound will be heard whether it is encoded with a surround back channel flag or not.

⑦ **OVERLOAD indicator**
This lights when an analog signal is too strong (the SIGNAL SELECT needs to be on ANALOG). It indicates the sound is distorting and the input signal should be reduced.

⑧ **ATT indicator**
Lights when ATT is used to attenuate (reduce) the level of the input signal (can only be used in ANALOG mode).

⑨ **DIRECT indicator**
Lights when source DIRECT is in use. This function bypasses all tone, channel levels, DSP and Dolby Surround effects.
MIDNIGHT indicator
Lights when MIDNIGHT listening mode is in use.
LOUDNESS indicator
Lights when the LOUDNESS is on. LOUDNESS is used to boost the bass and treble when listening at low levels.

⑩ **SPEAKER indicator**
Shows if the speaker system is on or not. SP ►A (and/or) B means speakers are switched on. SP ► means speakers are switched off.

⑪ **MONITOR indicator**
Lights when **MONITOR** is selected to hear a recording as it's being made.

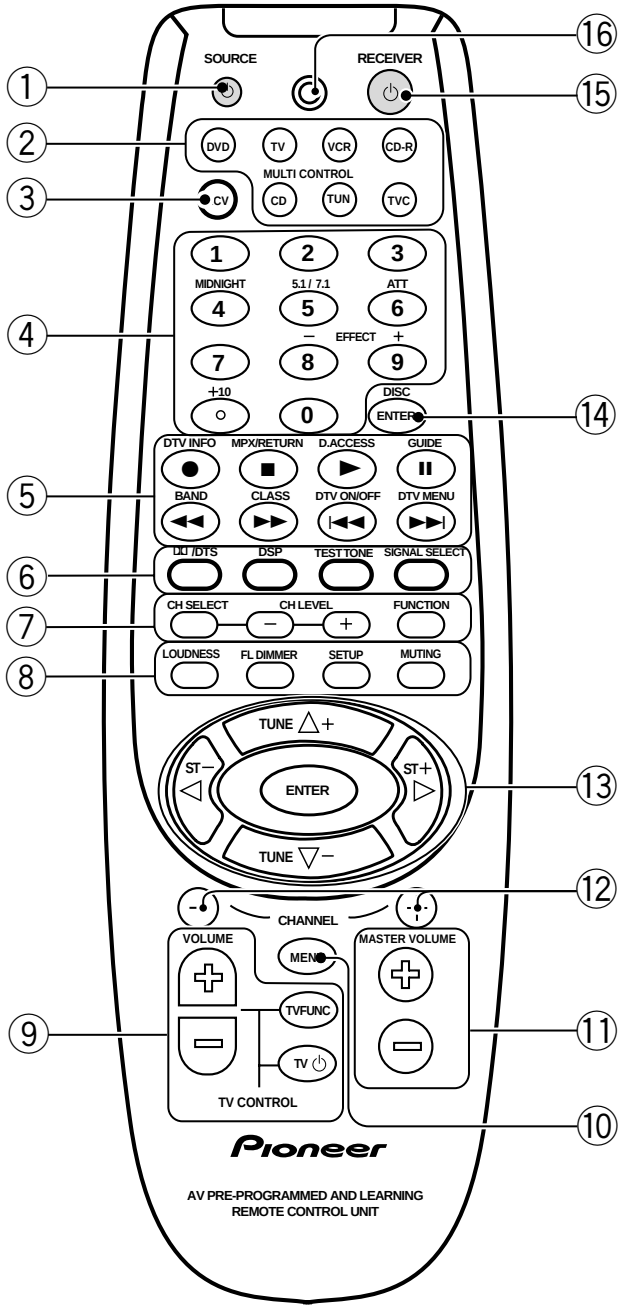
⑫ **TUNER indicators**
MONO:
Lights when the mono mode is set using the MPX MODE button.
TUNED:
Lights when a broadcast is being received.
STEREO:
Lights when a stereo FM broadcast is being received in auto stereo mode.

⑬ **MASTER VOLUME LEVEL**
Shows the overall volume level. Volume level is maintained even when the power is off. **---dB** indicates the minimum level, and 0dB indicates the maximum level.
- Depending on the level settings you make for individual channels, the MAX level can range between –10dB and 0dB.

⑭ **DNR indicator (Not used for VSX-D710S)**
Lights when the digital noise reduction is on. Use to reduce extraneous noise. It can be used with any sound mode.

⑮ **CHARACTER display**
Shows the radio frequency or function (DVD/LD, CD, etc.) receiver is using.

Remote Control



① **SOURCE ⏻ button**
Use to turn on/off other components connected to the receiver.

② **MULTI CONTROL buttons**
Use to put the receiver/remote control in the stated mode.

③ **RCV button**
Use this button when setting up the surround sound for the receiver. Also press it if you want to use special features attached to some of the number buttons, for example MIDNIGHT, 5.1/7.1, or ATT.

④ **NUMBER/MODE buttons**
Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.

Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 Ch setting is on).

MIDNIGHT
Use to put receiver in MIDNIGHT mode. To use first press the **RCV** button then operate this button.

5.1 Ch (VSX-D710S)
When the DVD/LD or DVD 5.1/7.1 Ch function is selected each press switches the DVD/LD input between DVD/LD and DVD 5.1/7.1 Ch. To use first press the **RCV** button then operate this button.

ATT
When the overload indicator lights use this button to attenuate (lower) the level of an analog input signal and prevent distortion. To use first press the **RCV** button then operate this button.

EFFECT +/– buttons
Use to add or subtract the amount of effect in different DSP sound modes (except 6 Ch Stereo) or advanced listening modes.
To use first press the **RCV** button then operate these buttons.

⑤ **THE FOLLOWING BUTTONS ARE BOTH CONTROLS FOR OTHER COMPONENTS (LIKE A DVD PLAYER) AND DEDICATED TUNER CONTROLS. THE TUNER CONTROLS ARE EXPLAINED HERE. YOU CAN USE THEM AFTER YOU HAVE PUSHED THE TUNER MULTI CONTROL BUTTON.**

BAND button
Use to switch between the AM and FM band when in TUNER mode.

CLASS button
Use to switch between the three banks (classes) of station memories.

MPX/RETURN button
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality. Also, this is the pause button for CDs, tapes, DVDs, etc.

D. ACCESS button
Use to directly access a radio station by pressing the number of the station you want.

DTV INFO button
Use to bring up information screens on a digital TV.

DTV MENU button
Use to bring up menus on a digital TV.

DTV ON/OFF button
Use to turn a digital TV on/off.

GUIDE button
Use to bring up the guides on a digital TV.

⑥ **DD /DTS button**
Use to put receiver in DOLBY DIGITAL, DOLBY SURROUND and DTS modes.
DSP button
Use to put receiver in one of the DSP modes.
TEST TONE button
Use to sound the TEST TONE when setting up the surround sound of the receiver (the DD /DTS mode must be on).
SIGNAL SELECT
Use to select the proper signal (analog, digital) for the source your are inputting.

⑦ **CH SELECT button**
Use to select a speaker when setting up the surround sound of the receiver. To use first press the **RCV** button then operate this button.
CH LEVEL +/–
Use to set up the levels of the surround sound of the receiver. To use first press the **RCV** button then operate this button.
FUNCTION button
Use to select the playback or recording source. This button lets you cycle through the different functions of the receiver in the following order: CD, TUNER, AUX, CDR/TAPE, VCR/DVR, DVD/LD, VIDEO, and TV/SAT.

⑧ **LOUDNESS button**
Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.
FL DIMMER button
Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.
SETUP button
Use this button when setting up the remote control to control other components.
MUTING button
Use to mute the sound or restore the sound if it has been muted.

⑨ **THE FOLLOWING BUTTONS ARE DEDICATED TV CONTROL. THEY ARE ONLY USED FOR CONTROLLING YOUR TV.**
TV FUNC button
Use select the TV function.
TV ⏻ button
Use to turn on/off the power of the TV.
TV VOLUME +/– buttons
Use to adjust the volume on your TV.

⑩ **MENU button**
Use to access different menus associated with your DVD player.

⑪ **MASTER VOLUME +/– buttons**
Use to set the overall listening volume.

⑫ **CHANNEL +/– buttons**
Use to select the stations of memorized radio frequencies. Also use to skip tracks backward or forward on CDs, DVDs, etc.

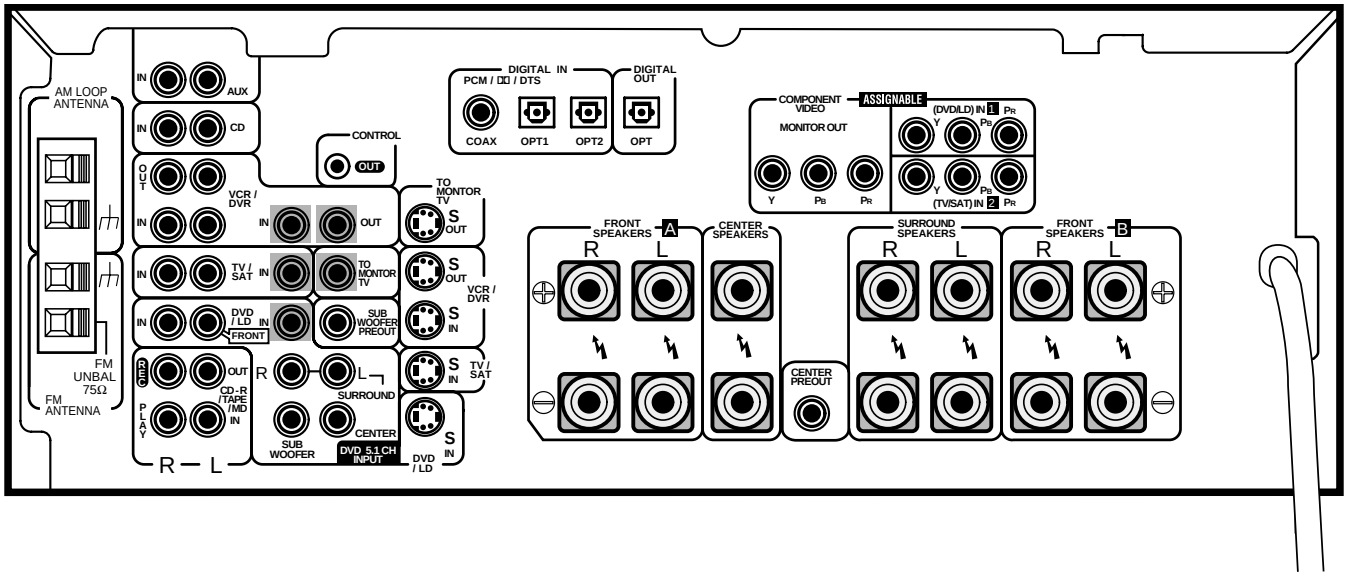
⑬ **◁ ▷ △ ▽ (TUNE/ST +/–) & ENTER buttons**
Use these arrow buttons when setting up your surround sound system . These buttons are also used to control DVD menus/options and for deck 1 of a double cassette deck player. The TUNE/ST +/– buttons can be used to find radio frequencies and preset stations, respectively.

⑭ **DISC (ENTER) button**
Use to select a disc an in multi-CD player. To use first press the **RCV** button then operate this button.

⑮ **RECEIVER ⏻ (POWER) button**
This switches between STANDBY mode and power ON for this receiver.

⑯ **LED DISPLAY**
This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

Rear Panel



8.2 SPECIFICATIONS

Amplifier Section

Continuous average power output of 100 watts per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.2 % total harmonic distortion (front).**

Continuous Power Output
Front ..... 100 W per channel (1kHz, 1.0 %, 8 Ω)
Center ..... 100 W (1kHz, 1.0 %, 8 Ω)
Surround ..... 100 W per channel (1kHz, 1.0 %, 8 Ω)

Input (Sensitivity/Impedance)
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 200 mV/47 kΩ
Frequency Response
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR/DVR REC, CD-R/TAPE/MD REC .... 200 mV/2.2 kΩ
Tone Control
BASS ..... ± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS ..... +9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 96 dB
Signal-to Noise Ratio [EIA, at 1 W (1 kHz)]
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 79 dB

Video Section

Input (Sensitivity/Impedance)
VCR/DVR, DVD/LD, TV/SAT, VIDEO ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR/DVR ..... 1 Vp-p/75 Ω
Frequency Response
VCR/DVR, DVD/LD, TV/SAT, VIDEO → MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB
Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono:13.2 dBf, IHF (1.3 µV/ 75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1) dB
Antenna Input (DIN) ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 530 kHz to 1,700 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements ..... AC 120 V, 60 Hz
Power Consumption ..... 250 W
350 VA
In Standby ..... 1 W
AC Outlet ..... 100 W MAX. (SWITCHED)
Dimensions ..... 420 (W) x 158 (H) x 401 (D) mm
(16-9/16 (W) x 6-4/16 (H) x 15-13/16 (D) in.)
Weight (without package) ..... 8.8 kg (19 lb 7 oz)

Furnished Parts

FM wire Antenna 1
AM loop Antenna 1
Dry Cell Batteries : AA Size / IEC R6P 2
Remote Control Unit 1
Operating Instructions 1

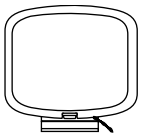
NOTE:
- Specifications and the design are subject to possible modifications without notice, due to improvements.

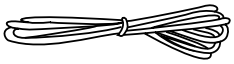
** Measured by Audio Spectrum Analyzer.

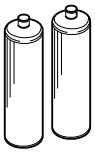
Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

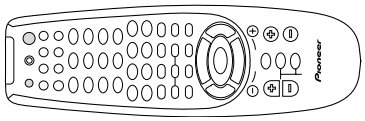
"DTS" ,"ES" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Manufactured under license from Digital Theater Systems, Inc.

Accessories


AM loop antenna
(ATB7009)

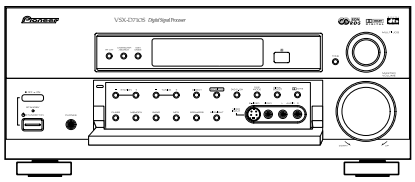

FM wire antenna
(ADH7004)


AA size IEC R6P
Dry cell batteries (x2)



Remote control unit
(XXD3028)

Service Manual



ORDER NO.
RRV2432

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D710S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D710S		
MYXJIEW	◯	AC220-230V	
MYXJIGR	◯	AC220-230V	
MVXJI	◯	AC230V	

CONTENTS

1. SAFETY INFORMATION ····· 2
2. EXPLODED VIEWS AND PARTS LIST ····· 3
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM ····· 8
4. PCB CONNECTION DIAGRAM ····· 28
5. PCB PARTS LIST ····· 43
6. ADJUSTMENT ····· 47
7. GENERAL INFORMATION ····· 48
7.1 DISASSEMBLY AND DIAGNOSIS ····· 48
7.2 PARTS ····· 50
7.2.1 IC ····· 50
7.2.2 DISPLAY ····· 53
8. PANEL FACILITIES AND SPECIFICATIONS ····· 55

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

©PIONEER CORPORATION 2001

T – ZZK MAR. 2001 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

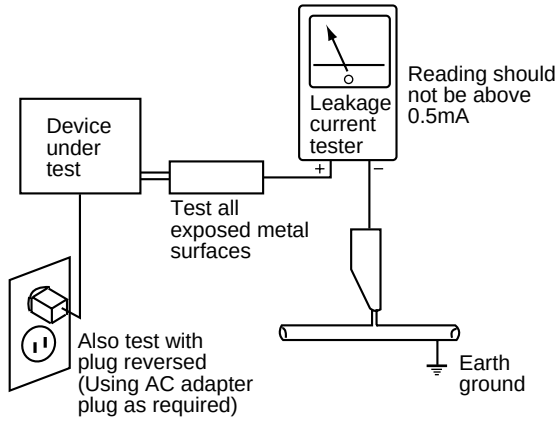
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

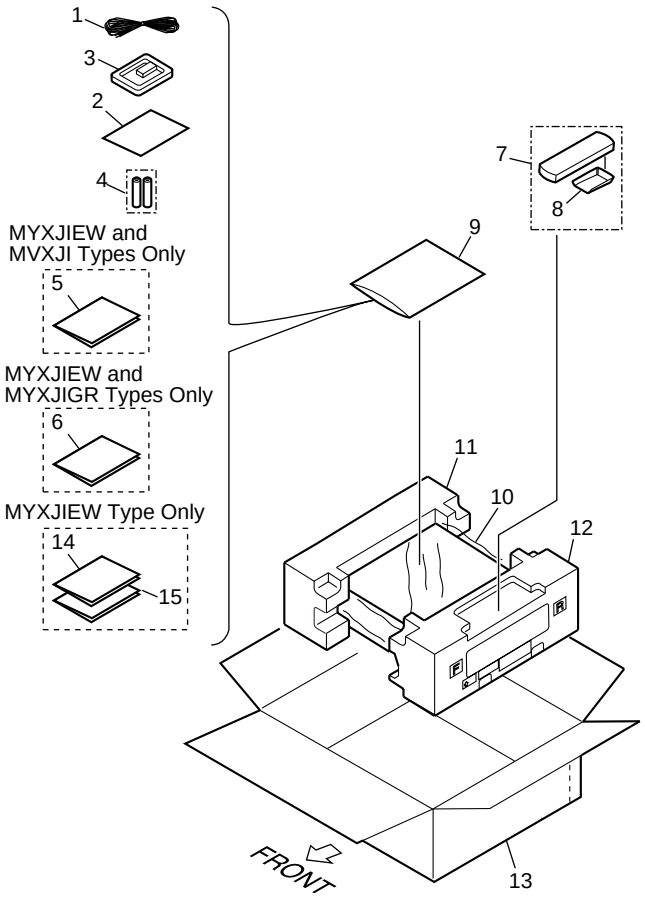
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

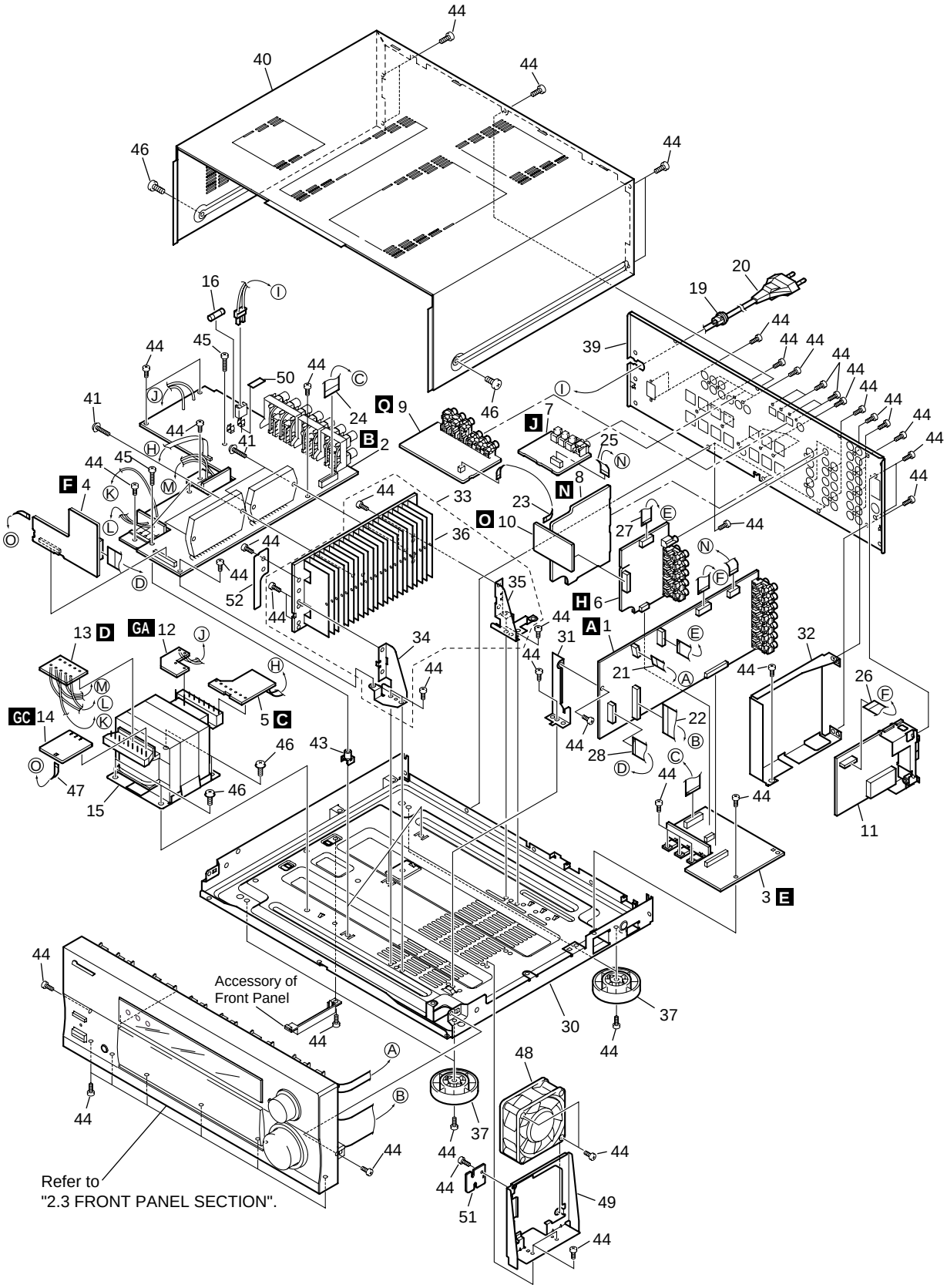
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7005
NSP	2	Warranty Card	ARY7022
	3	AM Loop Antenna	ATB7009
NSP	4	Dry Cell Battery (R6P, AA)	VEM-013
	5	Operating Instructions (English)	See Contrast table (2)
	6	Operating Instructions (German)	See Contrast table (2)
	7	Remote Control Unit	XXD3029
	8	Battery Cover	XZA3002
NSP	9	Polyethylene Bag ($0.03 \times 230 \times 340$)	Z21-038
	10	Packing Sheet	AHG7069
	11	Left Pad R4	XHA3024
	12	Right Pad R4	XHA3025
	13	Packing Case 710/MY	XHD3151
	14	Operating Instructions (Dutch/Swedish/Portuguese)	See Contrast table (2)
	15	Operating Instructions (French/Italian/Spanish)	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D710S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D710S /MYXJIEW	VSX-D710S /MYXJIGR	VSX-D710S /MVXJI	
	5	Operating Instructions (English)	XRB3005	Not used	XRB3005	
	6	Operating Instructions (German)	XRC3031	XRC3031	Not used	
	14	Operating Instructions (Dutch/Swedish/Portuguese)	XRC3032	Not used	Not used	
	15	Operating Instructions (French/Italian/Spanish)	XRC3033	Not used	Not used	

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

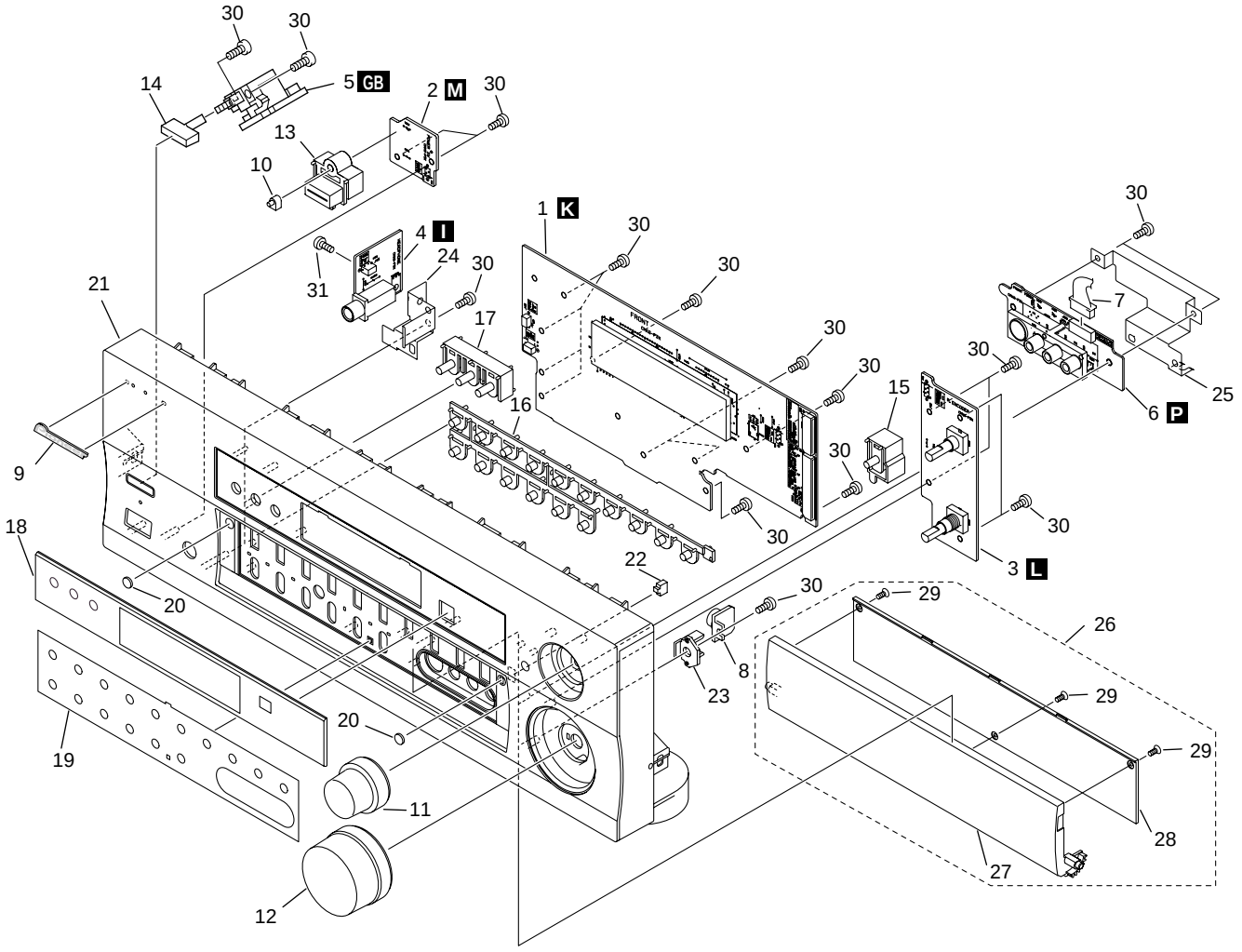
Mark	No.	Description	Part No.
	1	D.D & INPUT Assy	XWX3027
	2	AMP&PRIMARY Assy	XWZ3377
	3	REGULATOR Assy	XWZ3385
	4	AMP INPUT Assy	XWZ3387
	5	TRANS 2 Assy	XWZ3403
	6	VIDEO&6CH IN Assy	XWZ3334
	7	DIGITAL IN Assy	XWZ3361
	8	S. VIDEO Assy	XWZ3362
	9	COMPONENT Assy	XWZ3365
	10	BOARD TO BOARD Assy	XWZ3370
	11	FM/AM TUNER Unit	AXX7048
NSP	12	TRANS 1 Assy	XWZ3390
NSP	13	TRANS 3 Assy	XWZ3392
	14	TRANS 4 Assy	XWZ3369
⚠	15	Power Transformer (T1) (AC220-230V)	XTS3046
⚠	16	Fuse (FU1 : T2.5A)	REK1026
	17	• • • • • •	
	18	• • • • • •	
	19	Strain Relief	CM-22B
⚠	20	AC Power Cord	See Contrast table (2)
	21	FFC (J32 : 19P/30V) (D.D & INPUT CN103 ↔ FRONT CN401)	XDD3054
	22	FFC (J31 : 33P/30V) (D.D & INPUT CN102 ↔ FRONT CN402)	XDD3055
	23	FFC (J38 : 5P/30V) (BOARD TO BOARD CN392 ↔ COMPORNENT CN5501)	XDD3056
	24	FFC (J36 : 22P/30V) (REGULATOR CN801 ↔ AMP&PRIMARY CN53)	XDD3057
	25	FFC (J37 : 6P/30V) (D.D & INPUT CN1501 ↔ DIGITAL IN CN1901)	XDD3058
	26	FFC (J34 : 13P/30V) (D.D & INPUT CN105 ↔ FM/AM TUNER UNIT)	XDD3059
	27	FFC (J33 : 14P/30V) (D.D & INPUT CN104 ↔ VIDEO&6CH IN CN303)	XDD3060
	28	FFC (J35 : 17P/30V) (D.D & INPUT CN106 ↔ AMP INPUT CN254)	XDD3072
	29	• • • • • •	
NSP	30	Under Base 409	ANA7094
	31	PCB Angle	ANG7253
	32	Shield R3	ANG7277
NSP	33	Heat Sink Assy R4BX	XNH3023
	34	Heat Sink Angle F	ANG7251
	35	Heat Sink Angle R	ANG7252
NSP	36	Heat Sink R4BX	XNH3022
	37	Insulator	PNW2766
	38	• • • • • •	
	39	Rear Panel 710/MY	XNC3072
	40	Bonnet Case	XZN3112
	41	Screw	ABA7043
	42	• • • • • •	
	43	PCB Mold	AMR2533
	44	Screw	BBZ30P080FMC
	45	Screw	BBZ30P200FMC
	46	Screw	FBT40P080FZK
	47	FFC (J22 : 3P/30V) (TRANS 4 CN891 ↔ AMP INPUT CN251)	XDD3061
	48	Fan Motor	XXM3002
	49	Fan Holder R4	XNG3040
NSP	50	Fuse Card	AAX7277
NSP	51	Binder Assy	XWZ3401
NSP	52	Hold Assy	XWZ3402

(2) CONTRAST TABLE

VSX-D710S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D710S /MYXJIEW	VSX-D710S /MYXJIGR	VSX-D710S /MVXJI	
⚠	20	AC Power Cord	VDG1077	VDG1077	VDG1076	

2.3 FRONT PANEL SECTION



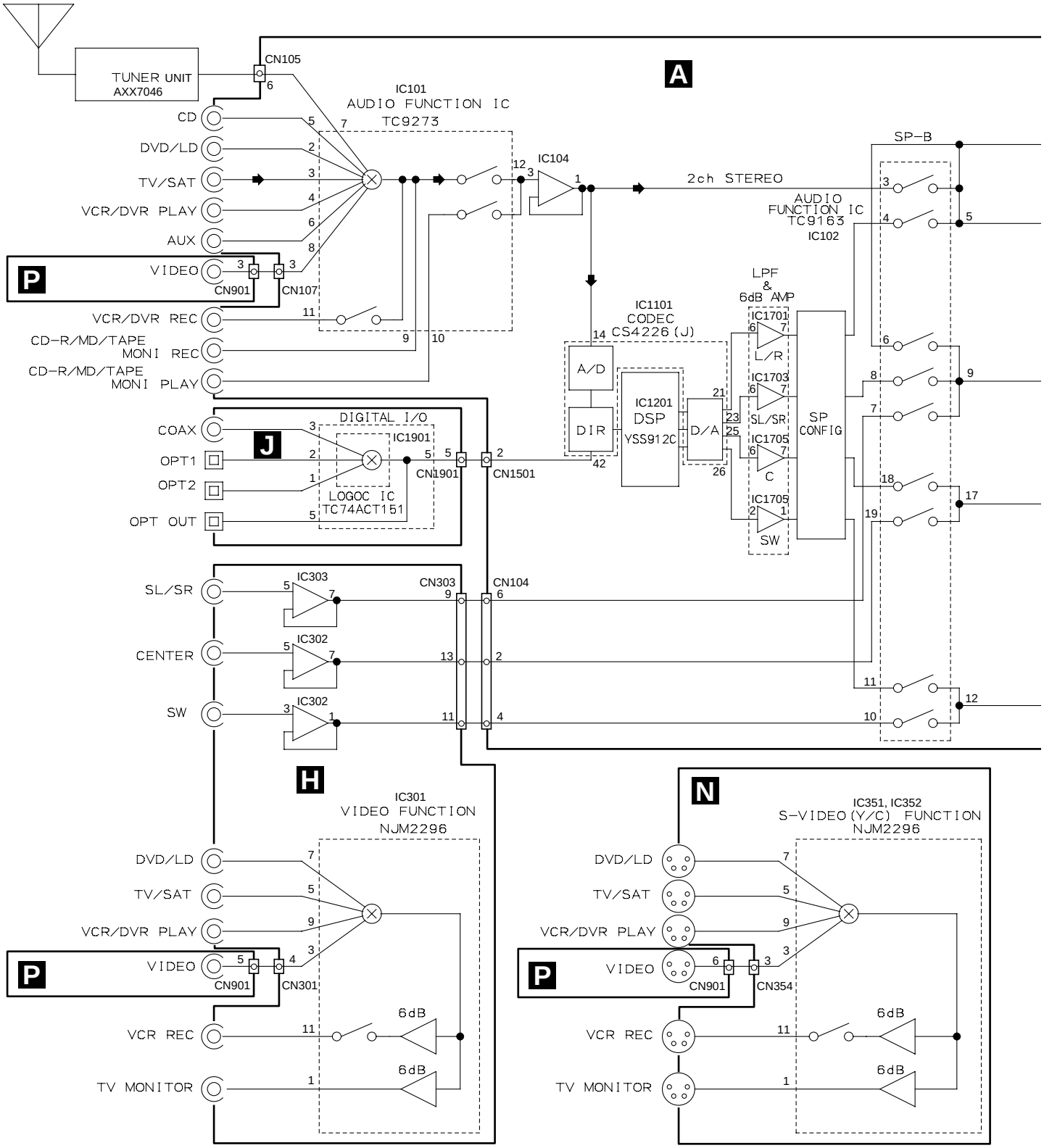
● FRONT PANEL SECTION PARTS LIST

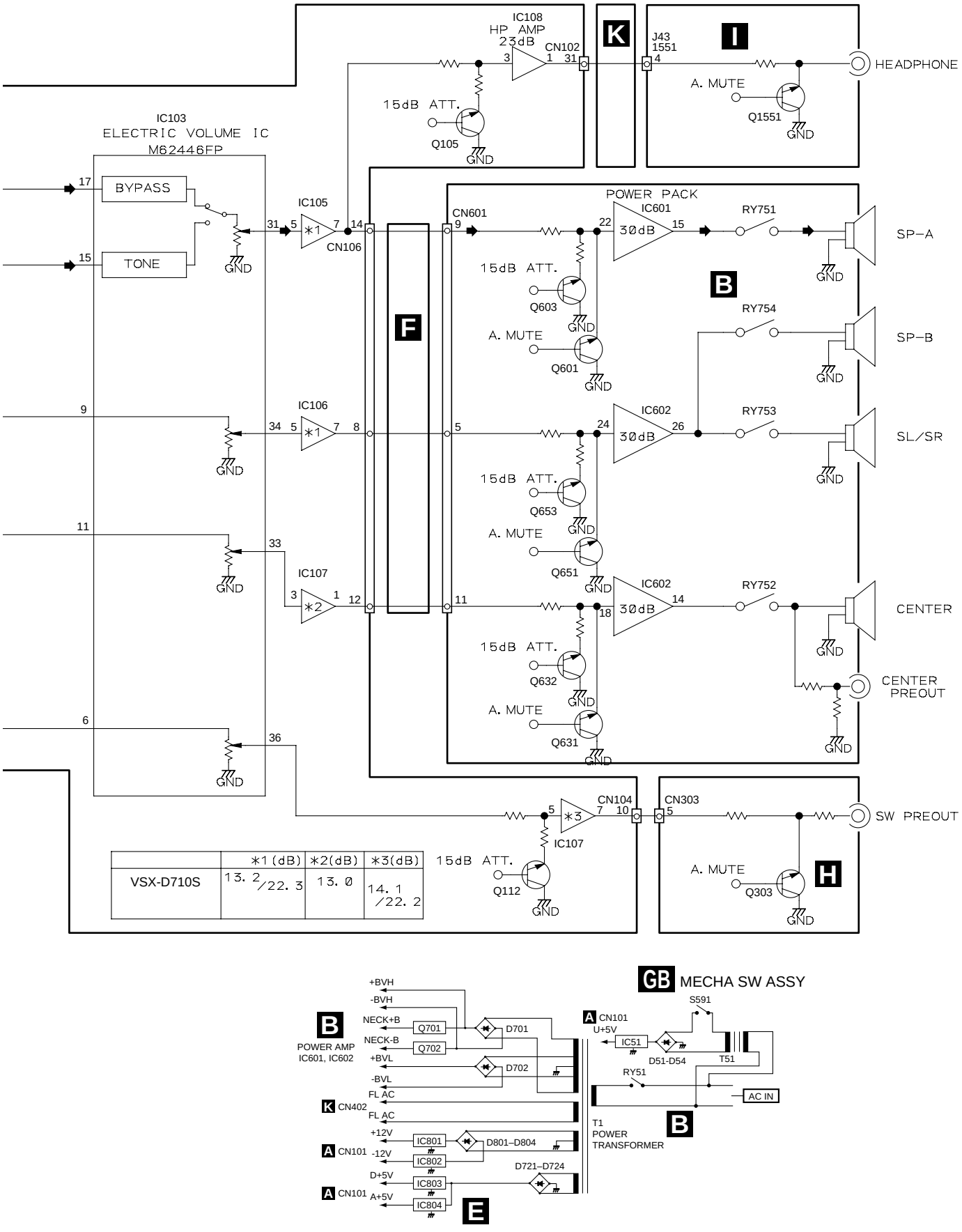
Mark	No.	Description	Part No.
	1	FRONT Assy	XWZ3341
	2	POWER SW Assy	XWZ3352
	3	R. ENCODER Assy	XWZ3353
	4	H.P. Assy	XWZ3356
	5	MECHA SW Assy	XWZ3358
	6	FRONT VIDEO Assy	XWZ3359
NSP	7	8P Shield Cable	XDX3012
	8	Damper Assy	AXA7052
	9	Name Plate	PAM1776
	10	LED Lens	PNW2019
	11	Select Knob R4B	XAB3008
	12	Volume Knob R4B	XAB3011
	13	Power Button R4B	XAD3062
	14	Power Button M	AAD7442
	15	Jog Button R4B	XAD3065
	16	Door Button R4B	XAD3070
	17	RDS Button R4B	XAD3072
	18	Display Panel W/MY	XAK3171
	19	Button Cover R4B	XAK3178
	20	Cushion R4B	XED3001
	21	Front Panel 710/MY	XMB3036
	22	Magnet 35	AMF7007
	23	Holder L R4	XMR3016
	24	Earth Plate A R4	XNG3044
	25	Earth Plate B R4	XNG3045
NSP	26	Door Assy R4B	XXG3068
	27	Door R4B	XAK3173
	28	Door Cover R4B	XAK3175
	29	Screw	XBA3001
	30	Screw	PPZ30P080FMC
	31	Screw	BBZ30P080FMC

This page was intentionally left blank.

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

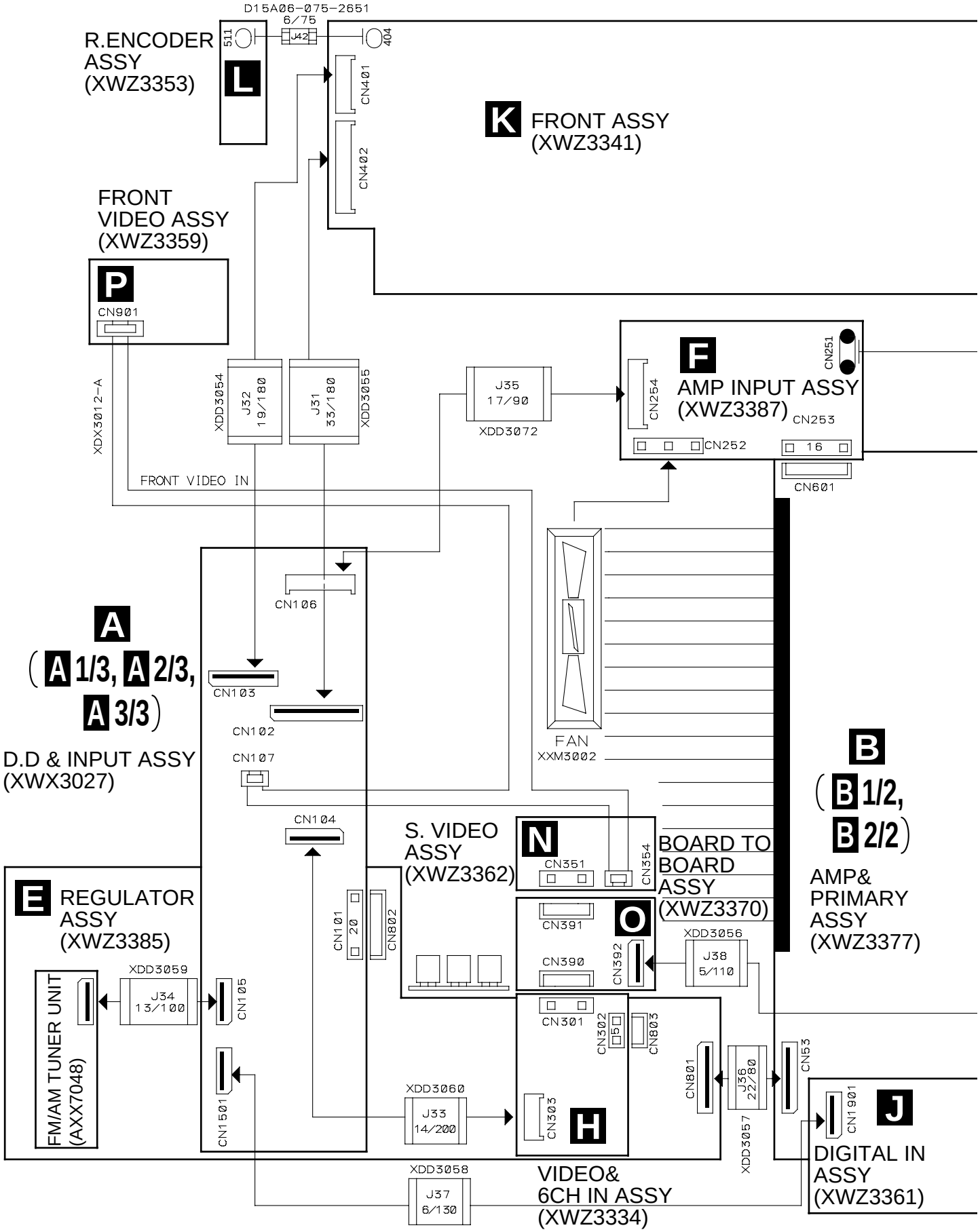
3.1 BLOCK DIAGRAM



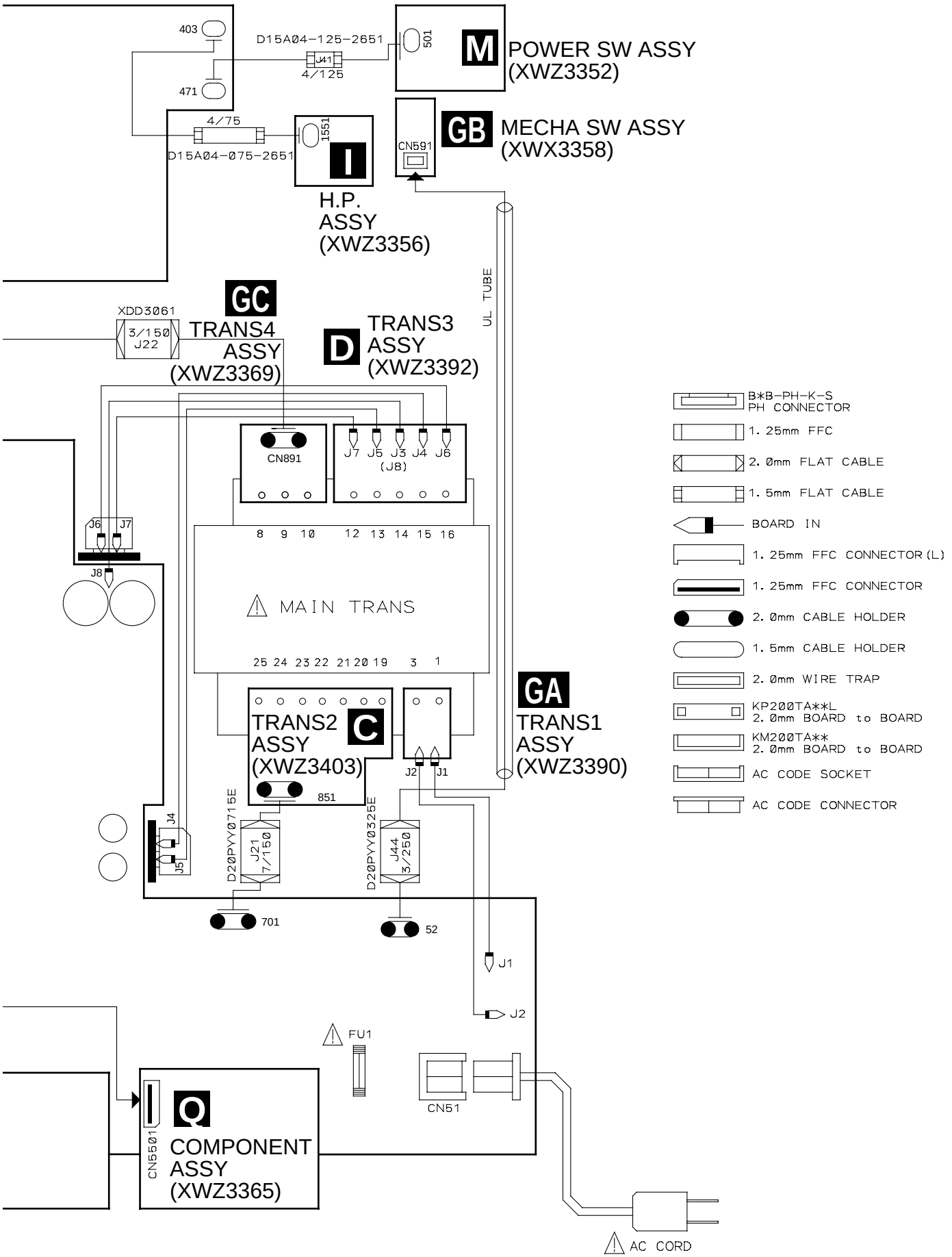

IC108
HP AMP
23dB
CN102
K
J43
1551
I
HEADPHONE
A. MUTE
Q1551
GND
15dB ATT.
Q105
IC103
ELECTRIC VOLUME IC
M62446FP
BYPASS
TONE
IC105
CN106
POWER PACK
IC601
CN601
RY751
SP-A
F
B
15dB ATT.
Q603
A. MUTE
Q601
RY754
SP-B
IC106
IC602
RY753
SL/SR
15dB ATT.
Q653
A. MUTE
Q651
IC107
IC602
RY752
CENTER
15dB ATT.
Q632
A. MUTE
Q631
CENTER
PREOUT
CN104
CN303
SW PREOUT
IC107
15dB ATT.
Q112
A. MUTE
Q303
H
VSX-D710S
*1(dB)
*2(dB)
*3(dB)
13.2/22.3
13.0
14.1/22.2

GB MECHA SW ASSY
S591
B
POWER AMP
IC601, IC602
+BVH
-BVH
NECK+B
NECK-B
+BVL
-BVL
Q701
Q702
D701
D702
FL AC
K CN402
FL AC
+12V
-12V
D+5V
A+5V
A CN101
IC801
IC802
IC803
IC804
D801–D804
D721–D724
E
A CN101
U+5V
IC51
D51-D54
T51
RY51
AC IN
T1
POWER
TRANSFORMER
B

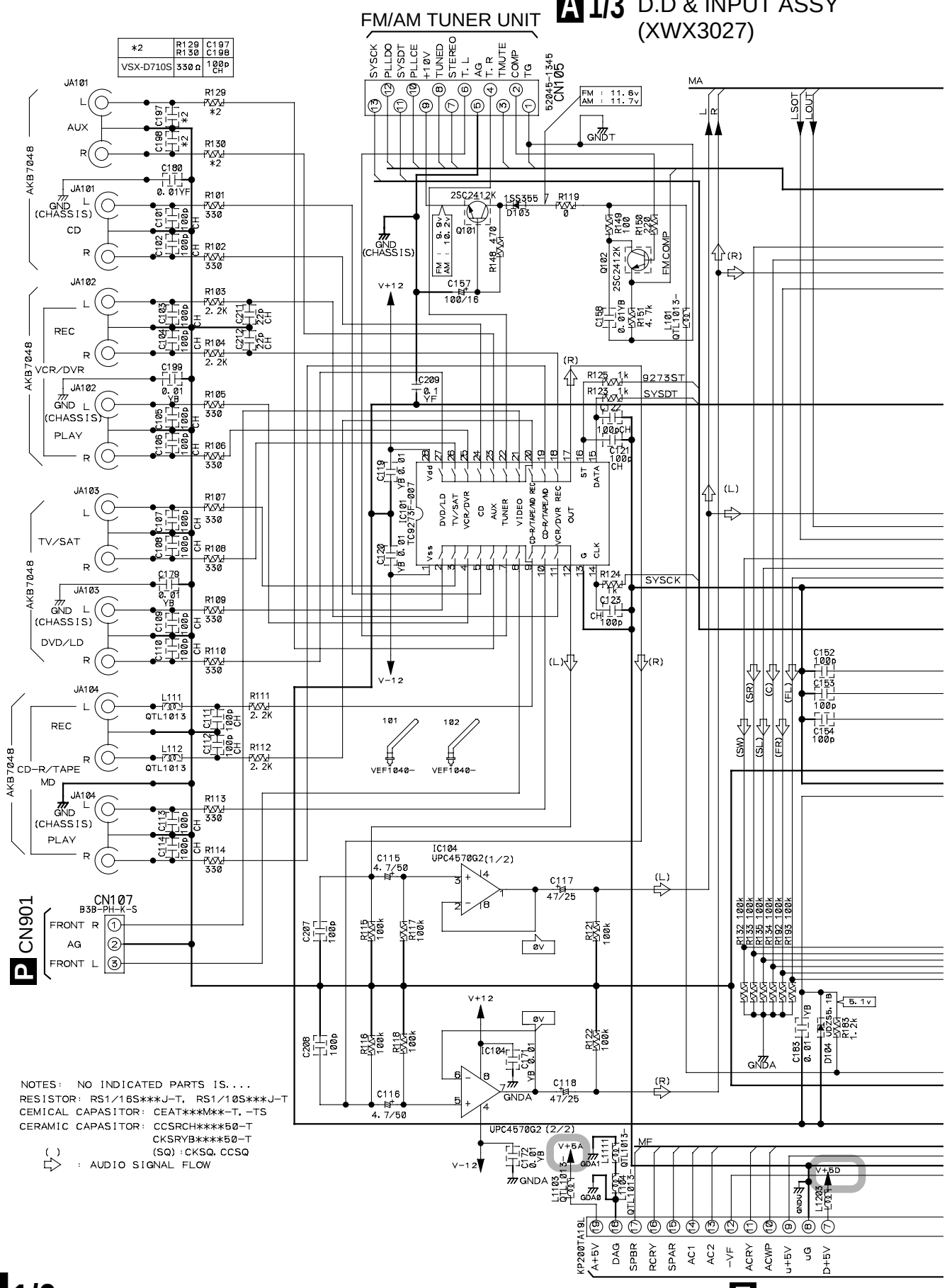
3.2 OVERALL WIRING CONNECTION DIAGRAM



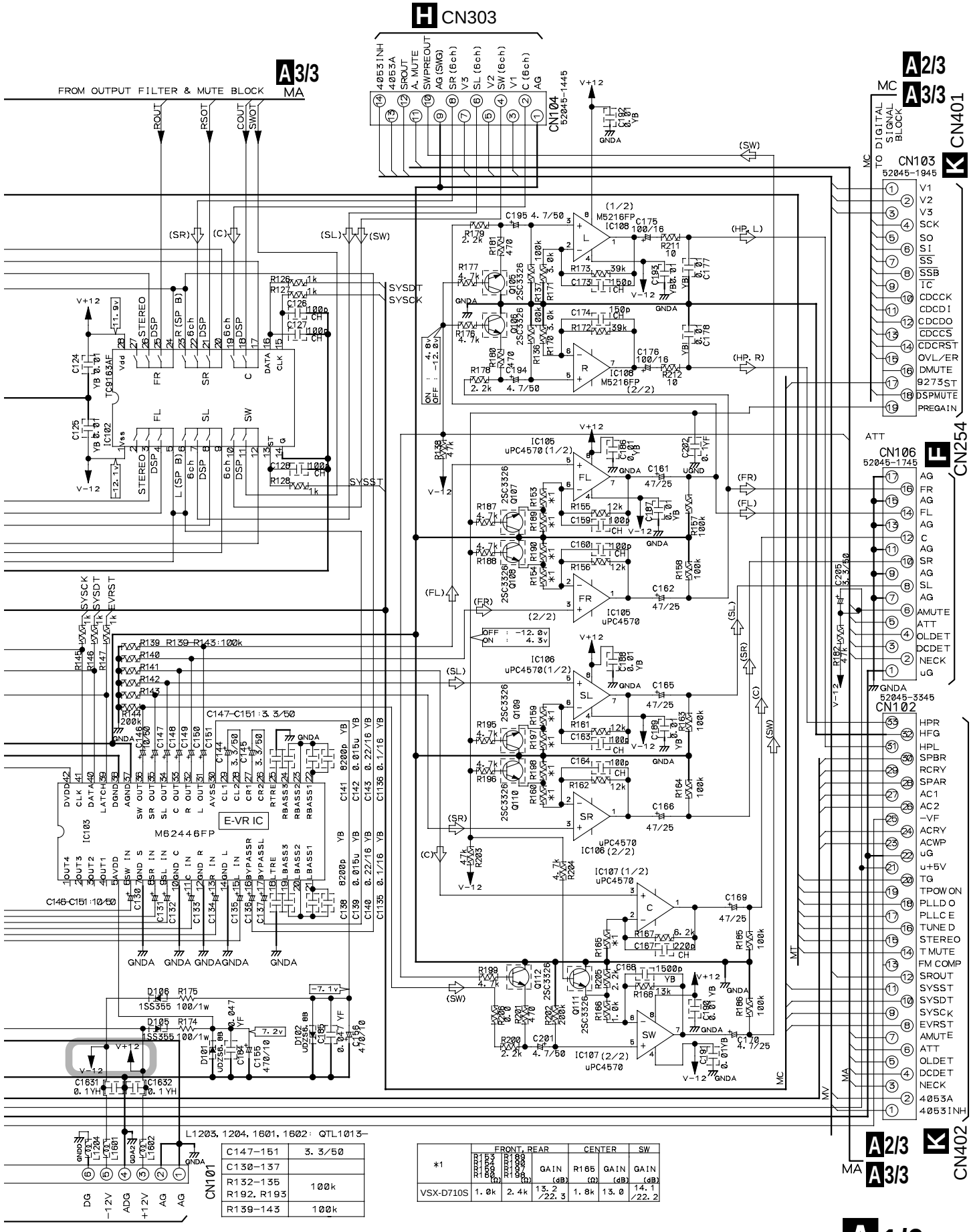
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.3 D.D & INPUT ASSY (1/3)



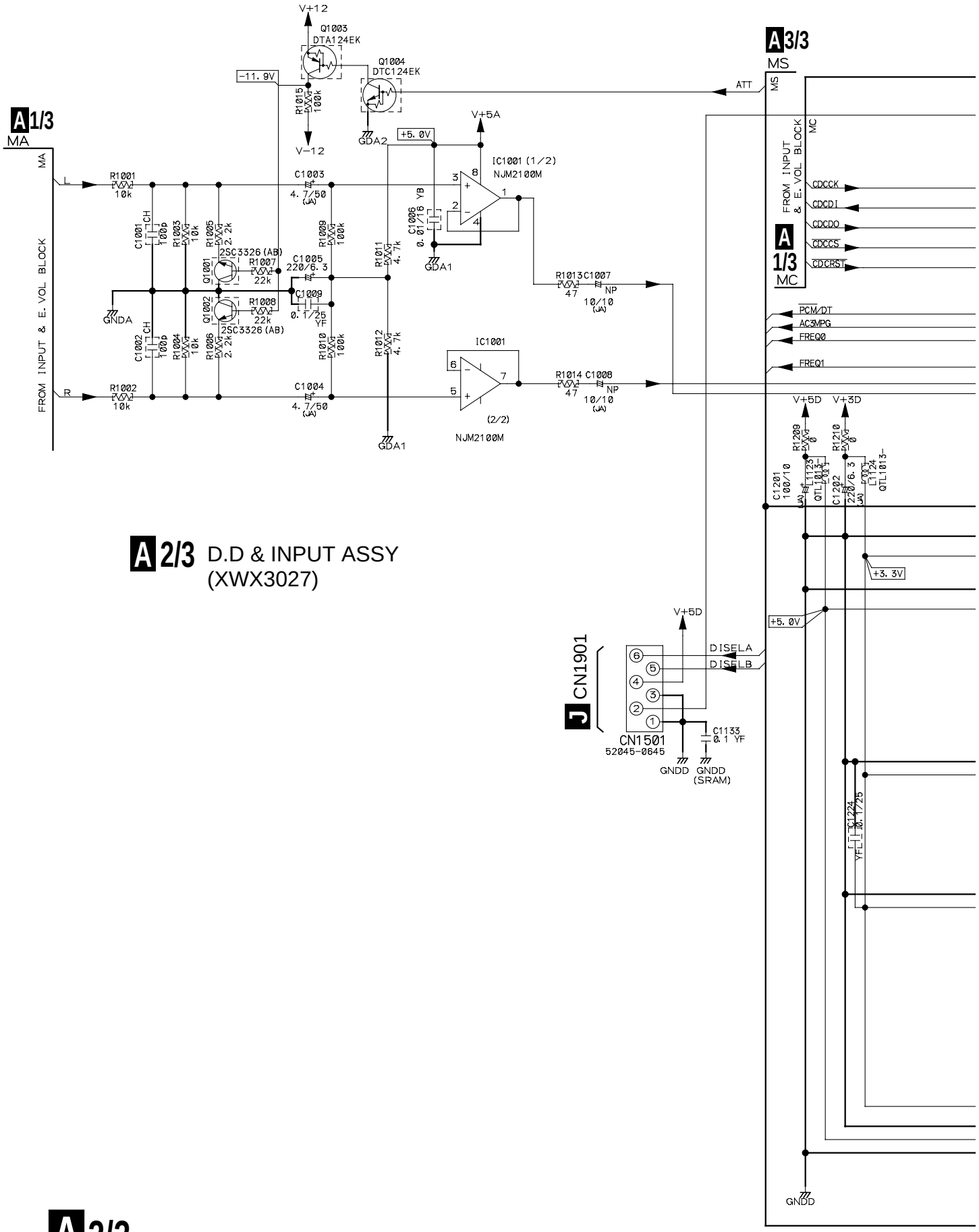
: The power supply is shown with the marked box.



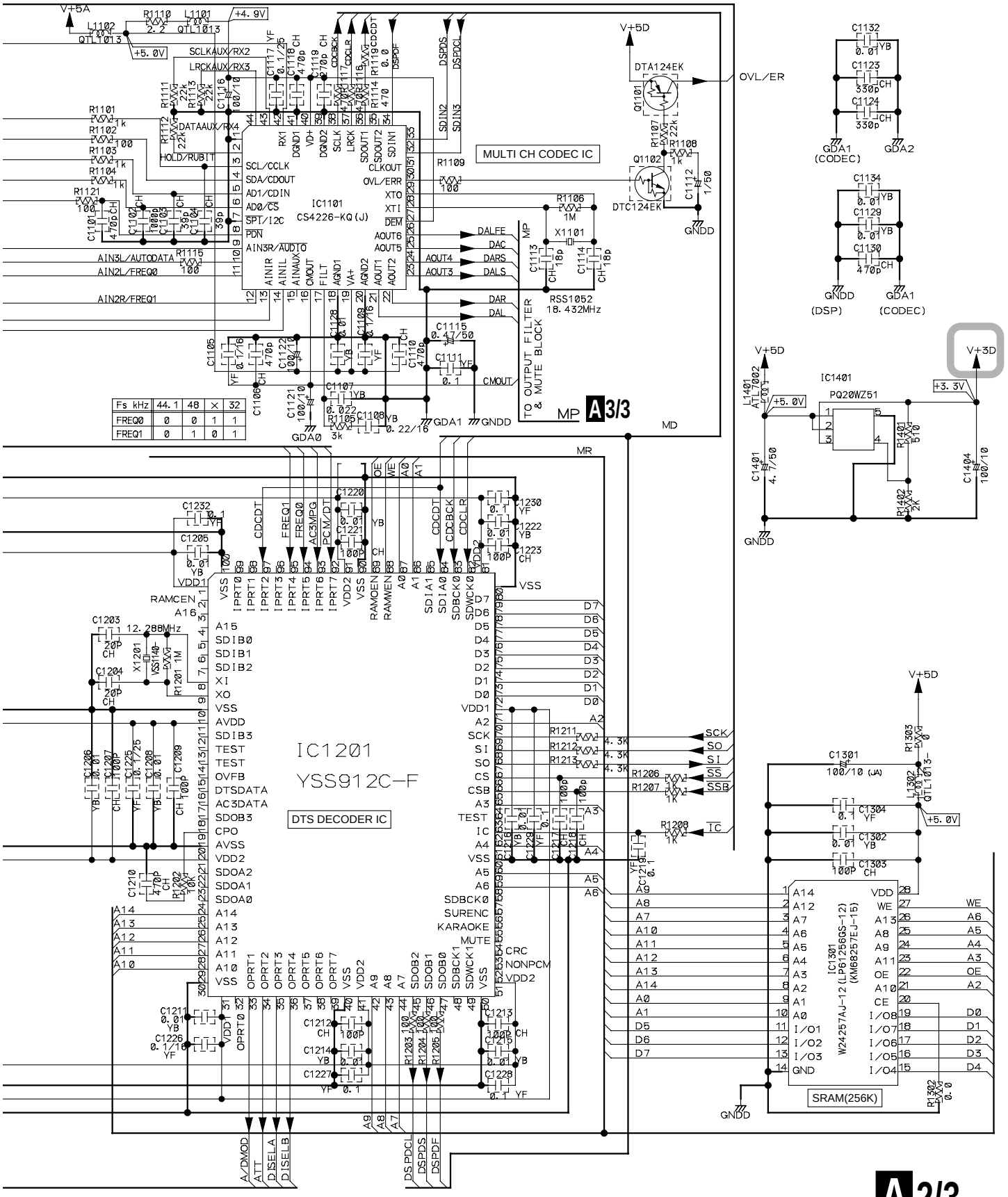
C147–151	3.3/50
C130–137	
R132–135 R192, R193	100k
R139–143	100k

*1	FRONT, REAR			CENTER		SW
	R132 R133 R134 R135 R192 R193 (Ω)	R136 R137 R138 R139 (Ω)	GAIN (dB)	R165 (Ω)	GAIN (dB)	GAIN (dB)
VSX-D710S	1.0k	2.4k	13.2 /22.3	1.8k	13.0	14.1 /22.2

3.4 D.D & INPUT ASSY (2/3)

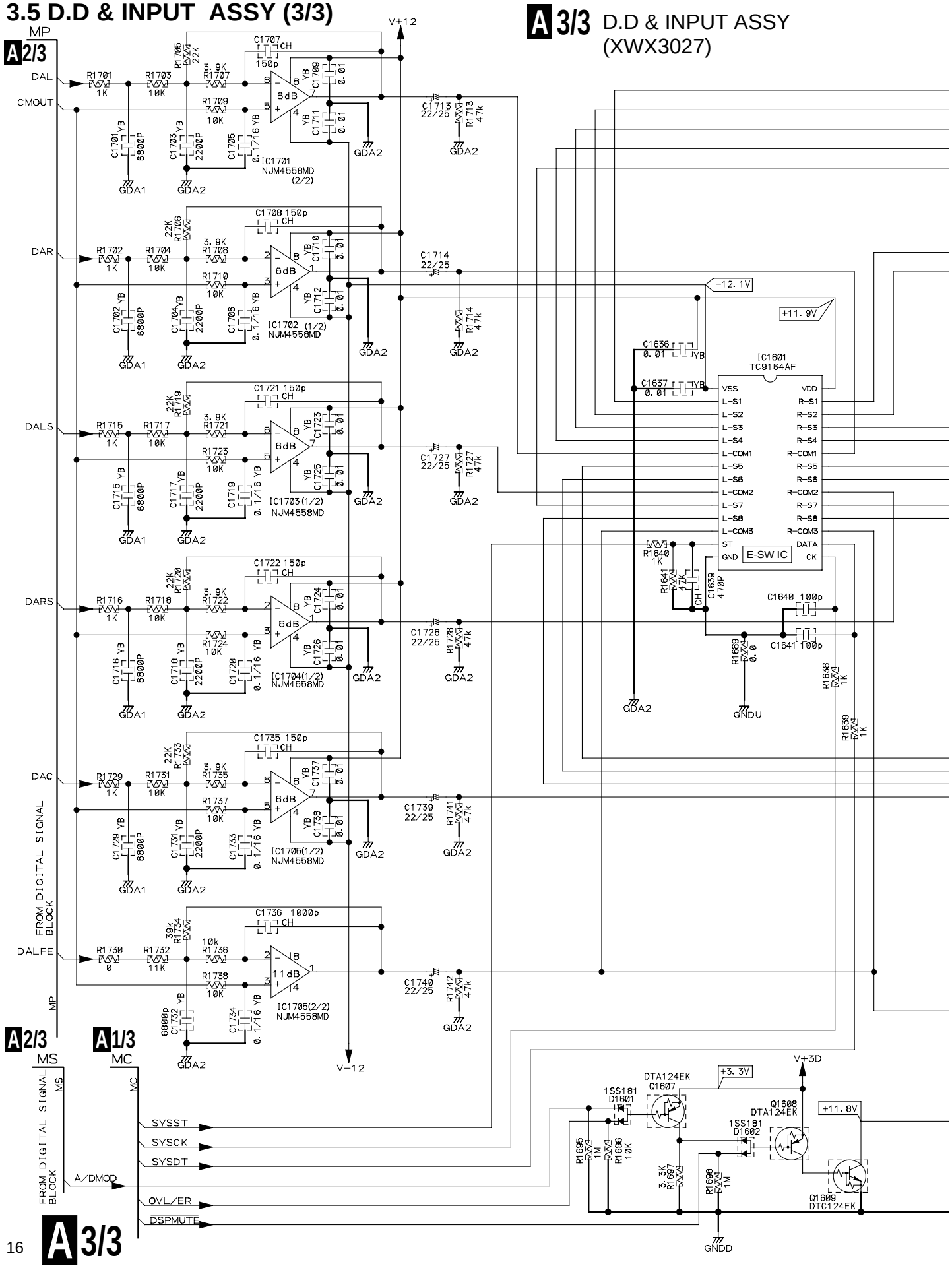


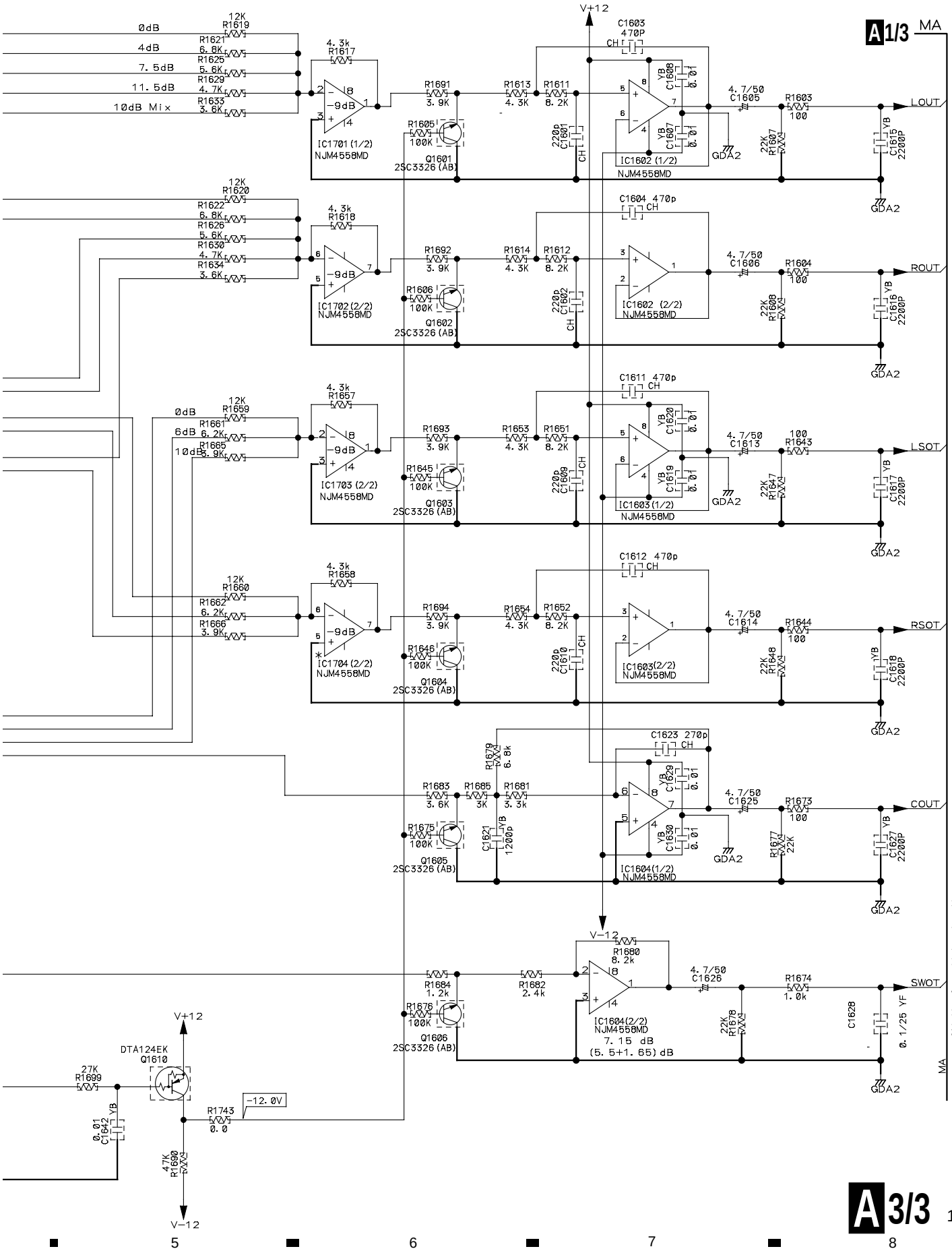
: The power supply is shown with the marked box.



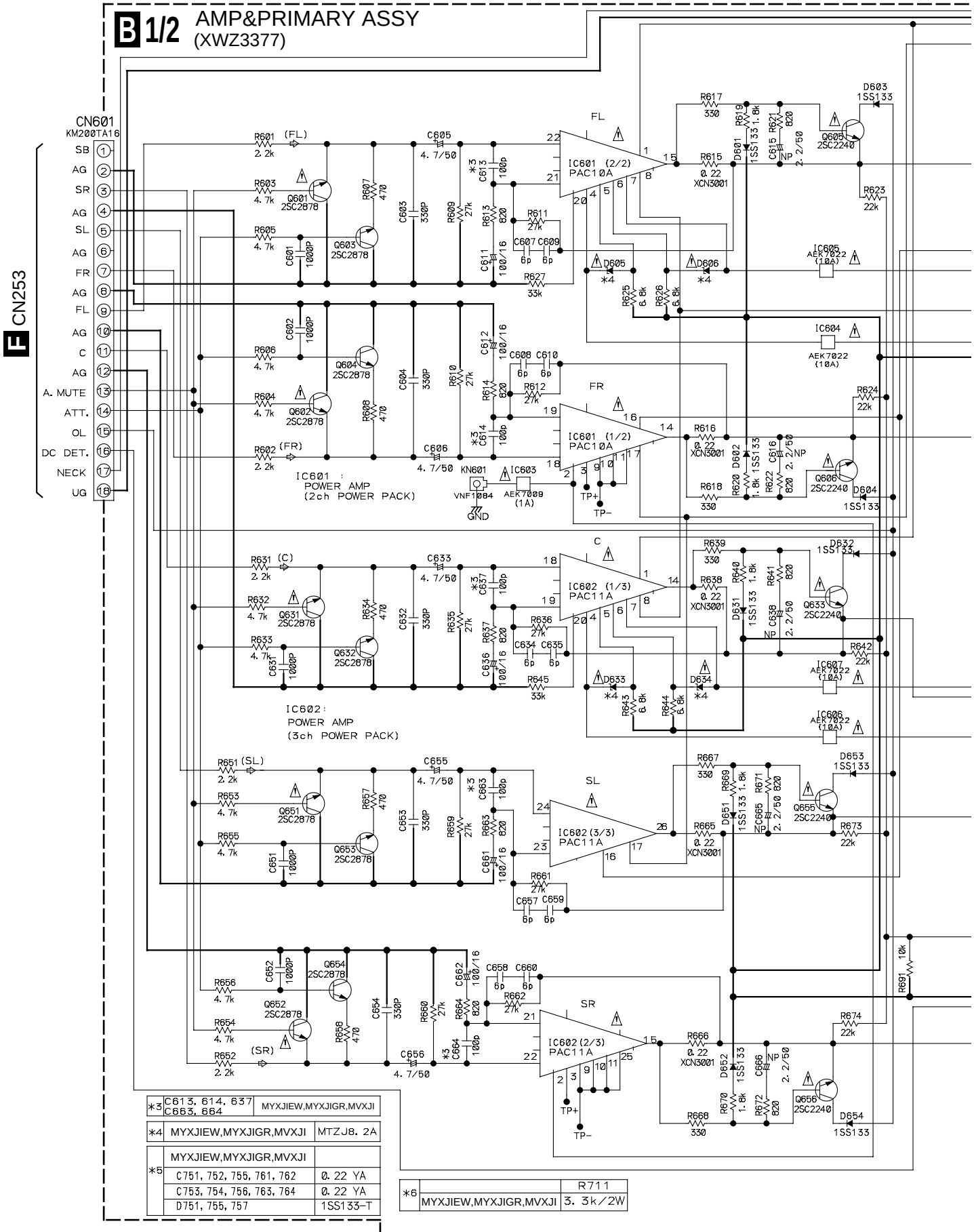
3.5 D.D & INPUT ASSY (3/3)

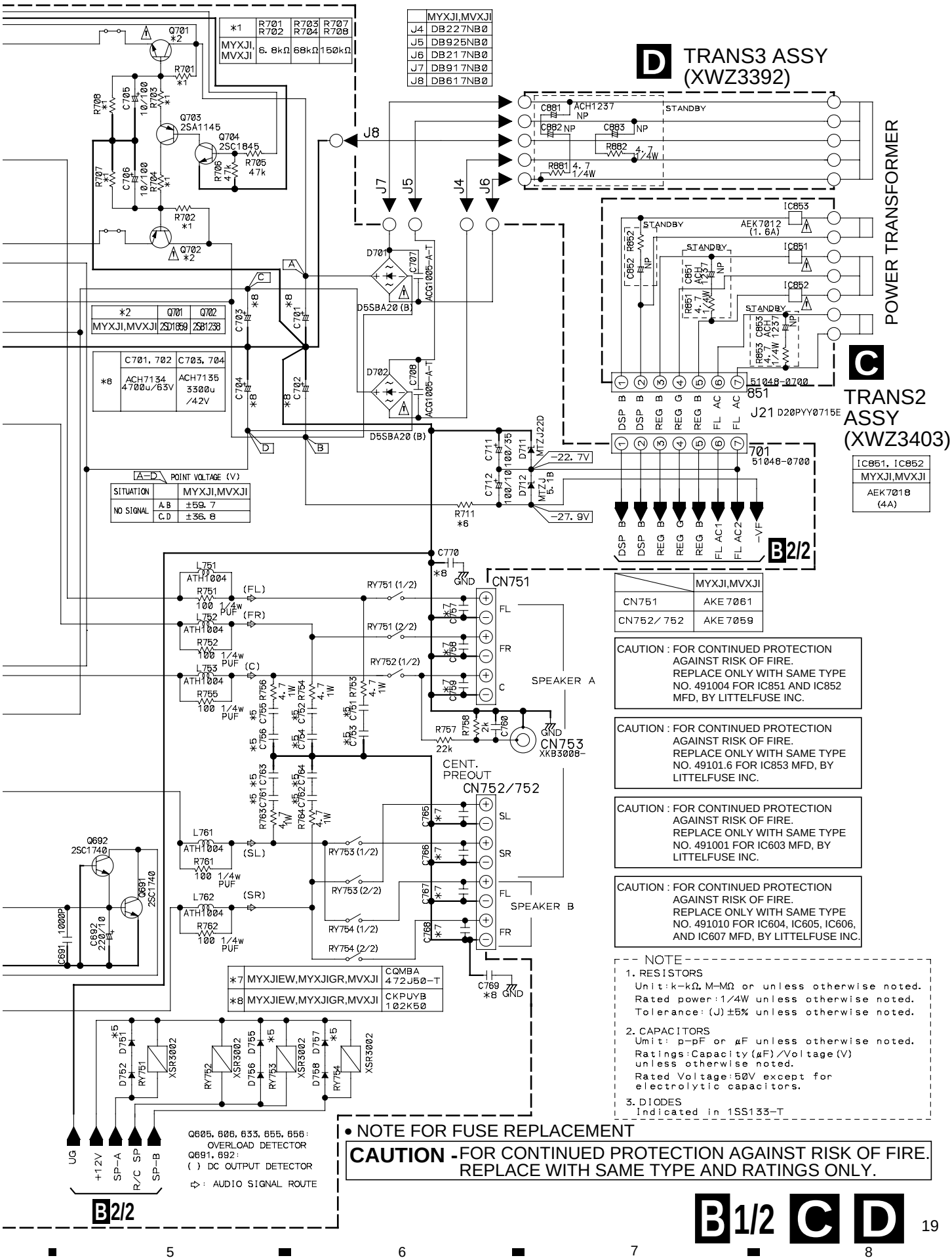
A 3/3 D.D & INPUT ASSY (XWX3027)



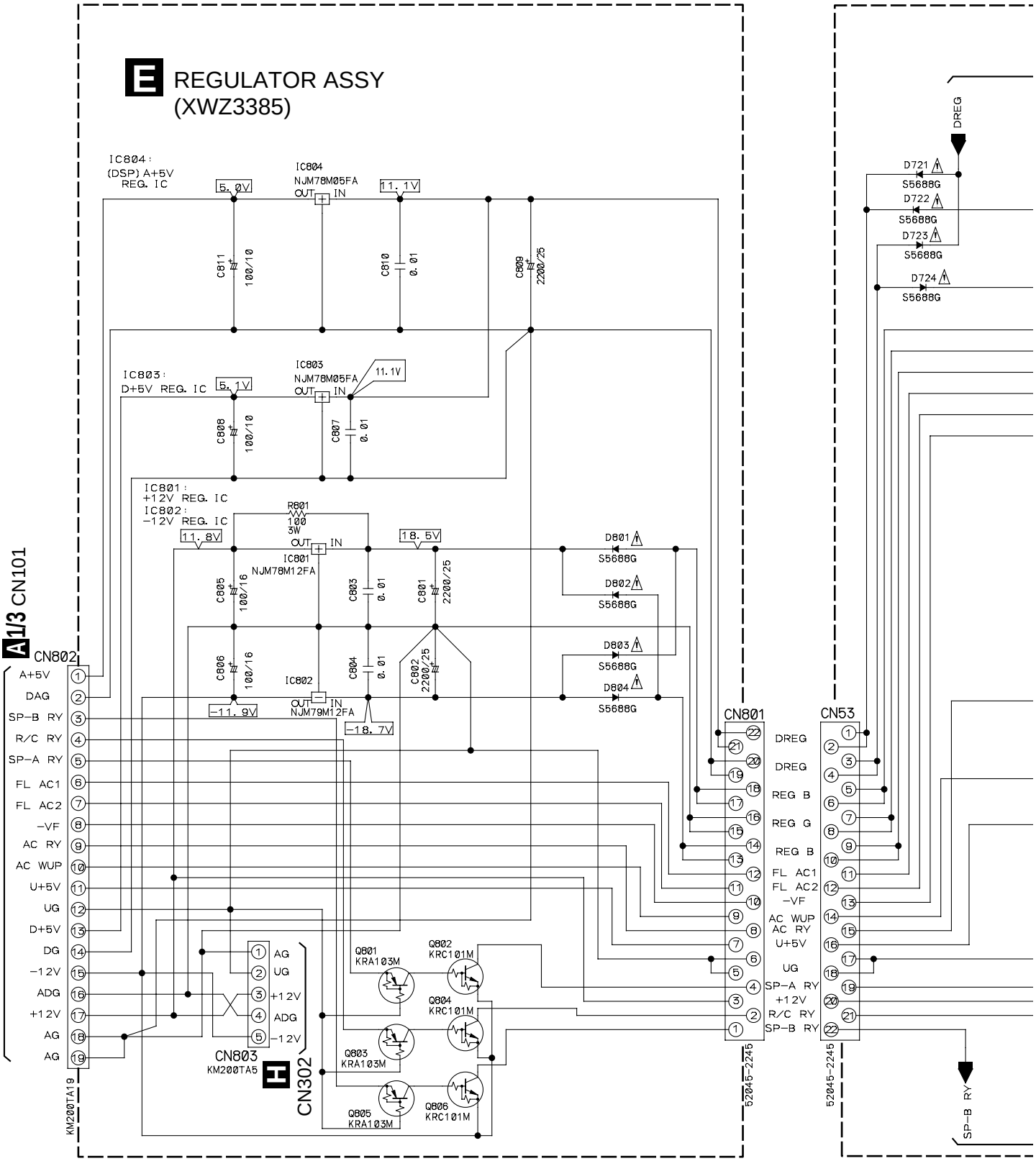

A1/3 MA
V+12
V-12
0dB
4dB
7.5dB
11.5dB
10dB Mix
12K R1619
R1621 6.8K
R1625 5.6K
R1629 4.7K
R1633 3.6K
4.3k R1617
IC1701(1/2) NJM4558MD
R1691 3.9K
R1605 100K
Q1601 2SC3326(AB)
R1613 4.3K
R1611 8.2K
C1603 470P CH
220p C1601 CH
IC1602(1/2) NJM4558MD
4.7/50 C1605
R1603 100
LOUT
22K R1607
C1615 2200P YB
GDA2
12K R1620
R1622 6.8K
R1626 5.6K
R1630 4.7K
R1634 3.6K
4.3k R1618
IC1702(2/2) NJM4558MD
R1692 3.9K
R1606 100K
Q1602 2SC3326(AB)
R1614 4.3K
R1612 8.2K
C1604 470p CH
220p C1602 CH
IC1602(2/2) NJM4558MD
4.7/50 C1606
R1604 100
ROUT
22K R1608
C1616 2200P YB
GDA2
12K R1659
0dB
6dB
10dB
R1661 6.2K
R1665 3.9K
4.3k R1657
IC1703(2/2) NJM4558MD
R1693 3.9K
R1645 100K
Q1603 2SC3326(AB)
R1653 4.3K
R1651 8.2K
C1611 470p CH
220p C1609 CH
IC1603(1/2) NJM4558MD
4.7/50 C1613
100 R1643
LSOT
22K R1647
C1617 2200P YB
GDA2
12K R1660
R1662 6.2K
R1666 3.9K
4.3k R1658
IC1704(2/2) NJM4558MD
R1694 3.9K
R1646 100K
Q1604 2SC3326(AB)
R1654 4.3K
R1652 8.2K
C1612 470p CH
220p C1610 CH
IC1603(2/2) NJM4558MD
4.7/50 C1614
R1644 100
RSOT
22K R1648
C1618 2200P YB
GDA2
C1623 270p CH
R1679 6.8k
R1683 3.6K
R1685 3K
R1681 3.3k
R1675 100K
C1621 1200p YB
Q1605 2SC3326(AB)
IC1604(1/2) NJM4558MD
4.7/50 C1625
R1673 100
COUT
R1677 22K
C1627 2200P YB
GDA2
R1680 8.2k
R1684 1.2k
R1682 2.4k
R1676 100K
Q1606 2SC3326(AB)
IC1604(2/2) NJM4558MD
7.15 dB
(5.5+1.65) dB
4.7/50 C1626
R1674 1.0k
SWOT
22K R1678
C1628 0.1/25 YF
GDA2
DTA124EK Q1610
27K R1699
R1743 0.0
-12.0V
0.01 C1642 YB
47K R1690
MA TO INPUT & E. VOL BLOCK

3.6 AMP&PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

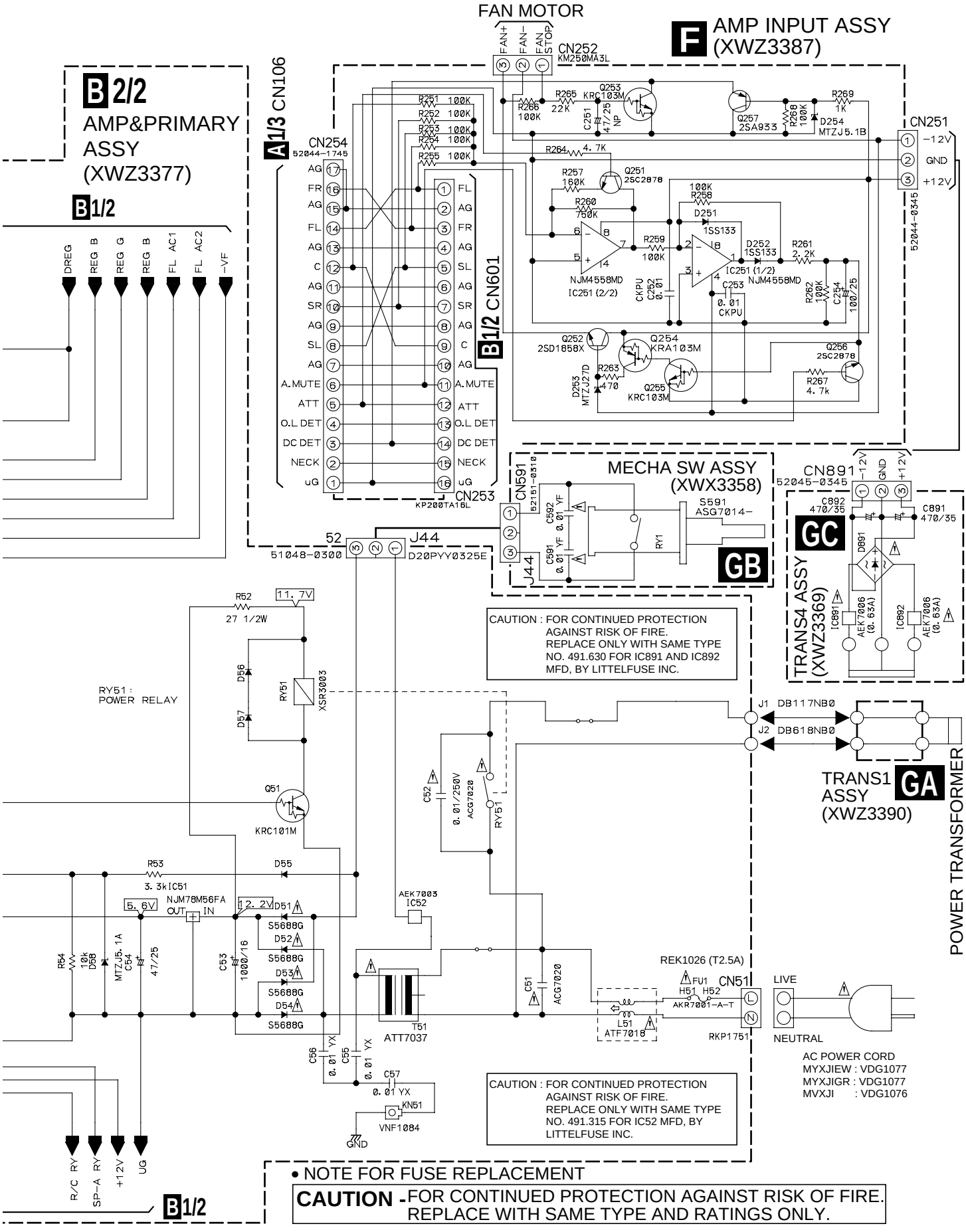



D TRANS3 ASSY (XWZ3392)
POWER TRANSFORMER
C TRANS2 ASSY (XWZ3403)
B2/2
B1/2
CN751
CN752/752
CN753
SPEAKER A
SPEAKER B
CENT. PREOUT
J8
J7
J5
J4
J6
851
701
J21 D20PYY0715E
51048-0700
D5SBA20(B)
-22.7V
-27.9V
Q605, 606, 633, 655, 656: OVERLOAD DETECTOR
Q691, 692: ( ) DC OUTPUT DETECTOR
: AUDIO SIGNAL ROUTE
UG
+12V
SP-A
R/C SP
SP-B
• NOTE FOR FUSE REPLACEMENT
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491004 FOR IC851 AND IC852 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 FOR IC853 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.
NOTE
1. RESISTORS
Unit:k-kΩ, M-MΩ or unless otherwise noted.
Rated power:1/4W unless otherwise noted.
Tolerance:(J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings:Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage:50V except for electrolytic capacitors.
3. DIODES
Indicated in 1SS133-T

3.7 AMP&PRIMARY (2/2), REGULATOR, AMP INPUT, TRANS1, MECHA SW and TRANS4 ASSYS

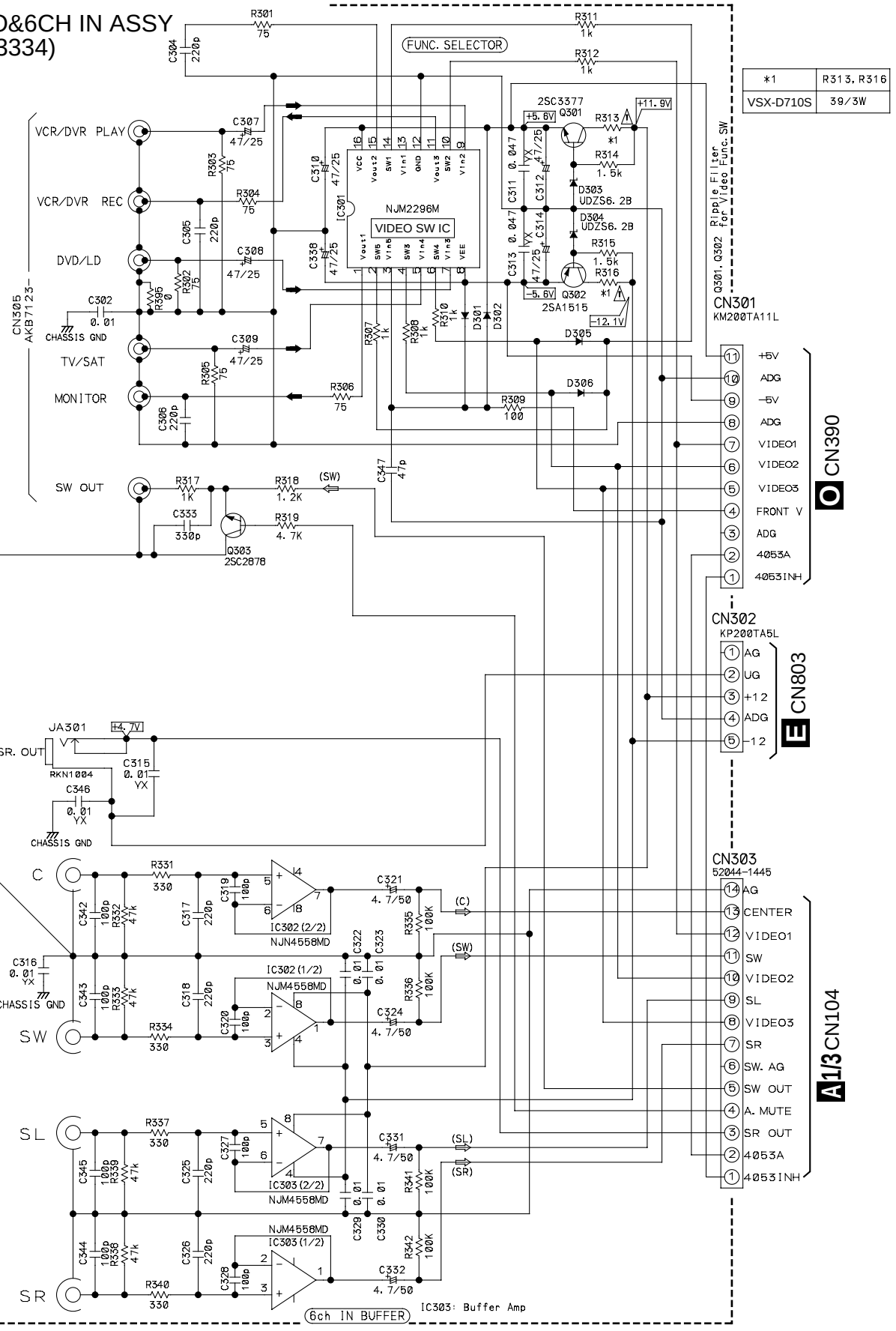


B 2/2 E


B 2/2
AMP&PRIMARY ASSY (XWZ3377)
B1/2
DREG
REG B
REG G
REG B
FL AC1
FL AC2
-VF
A1/3 CN106
CN254
52044-1745
B1/2 CN601
CN253
KP200TA16L
FAN MOTOR
FAN+
FAN-
FAN STOP
CN252
KM250MA3L
F AMP INPUT ASSY (XWZ3387)
CN251
52044-0345
-12V
GND
+12V
NJM4558MD
IC251 (2/2)
IC251 (1/2) NJM4558MD
MECHA SW ASSY (XWX3358)
CN591
52151-0510
S591
ASG7014-
J44
51048-0300
D20PYY0325E
CN891
52045-0345
GC
TRANS4 ASSY (XWZ3369)
GB
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.630 FOR IC891 AND IC892 MFD, BY LITTELFUSE INC.
RY51 : POWER RELAY
XSR3003
KRC101M
NJM78M56FA
AEK7003
IC52
ACG7020
ATT7037
REK1026 (T2.5A)
FU1
CN51
AKR7001-A-T
RKP1751
LIVE
NEUTRAL
AC POWER CORD
MYXJIEW : VDG1077
MYXJIGR : VDG1077
MVXJI : VDG1076
J1 DB117NB0
J2 DB618NB0
TRANS1 ASSY (XWZ3390)
GA
POWER TRANSFORMER
VNF1084
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.315 FOR IC52 MFD, BY LITTELFUSE INC.
R/C RY
SP-A RY
+12V
UG
B1/2
• NOTE FOR FUSE REPLACEMENT
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

3.8 VIDEO&6CH IN, H. P. and DIGITAL IN ASSYS

H VIDEO&6CH IN ASSY (XWZ3334)



*1	R313, R316
VSX-D710S	39/3W

NJM2296D control port status

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

VIN 2. VCR/DVR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT VIDEO

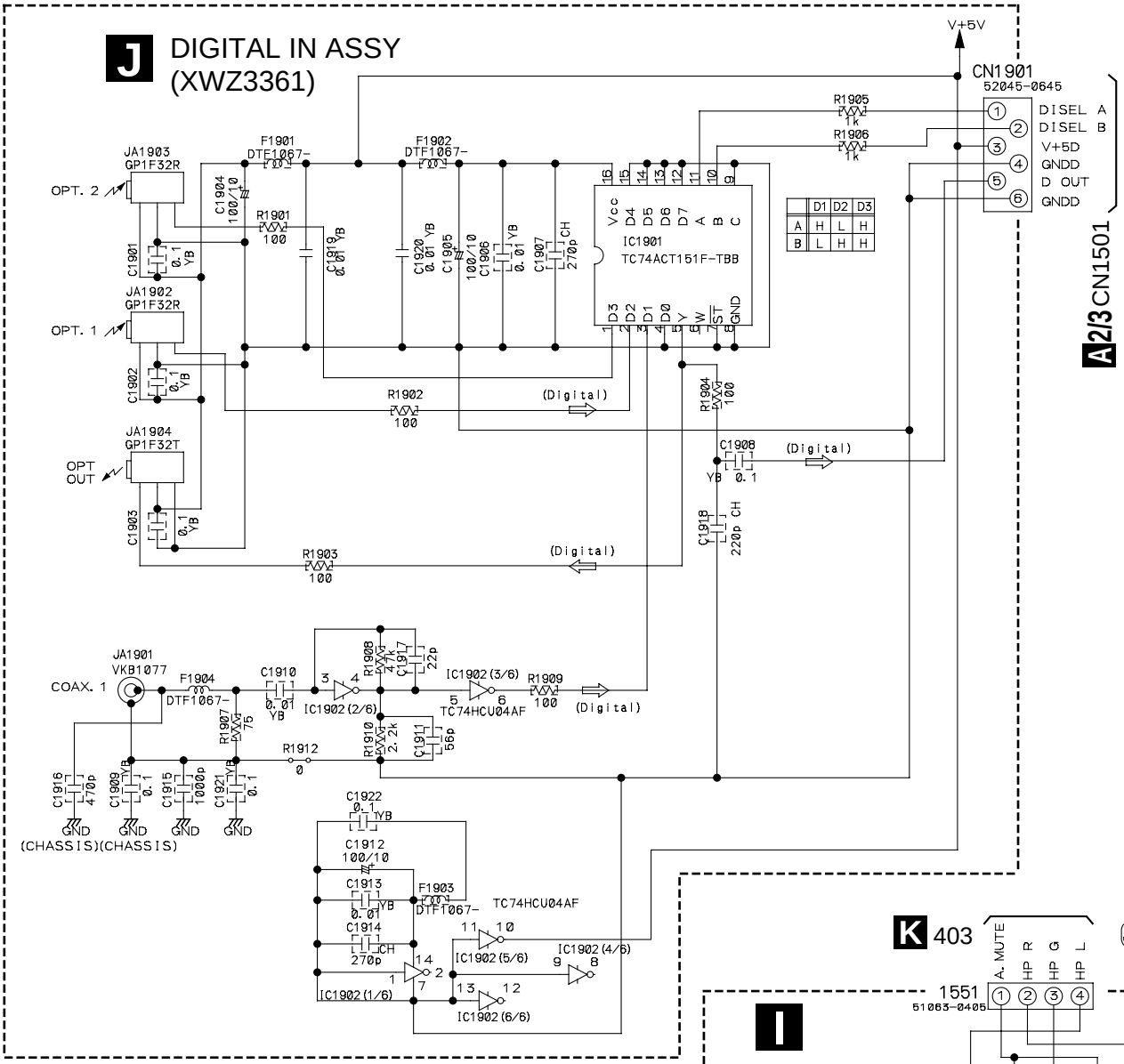
Vout1. MONITOR out
Vout2. MR out
Vout3. VCR/DVR out

-NOTE-

1. RESISTORS
   Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   Rated power: 1/10W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   Unit: p-pF or μF unless otherwise noted.
   Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
   Indicated in 1SS355-TRB

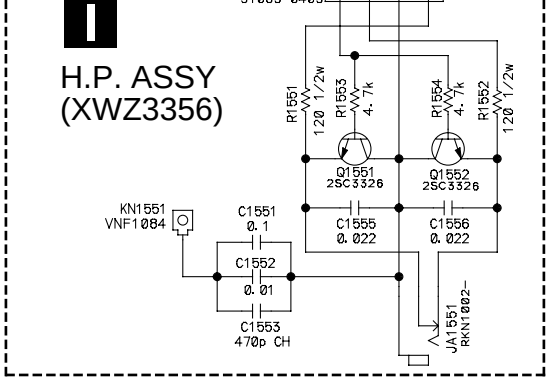
Video Signal Flow
Audio Signal Flow

J DIGITAL IN ASSY (XWZ3361)

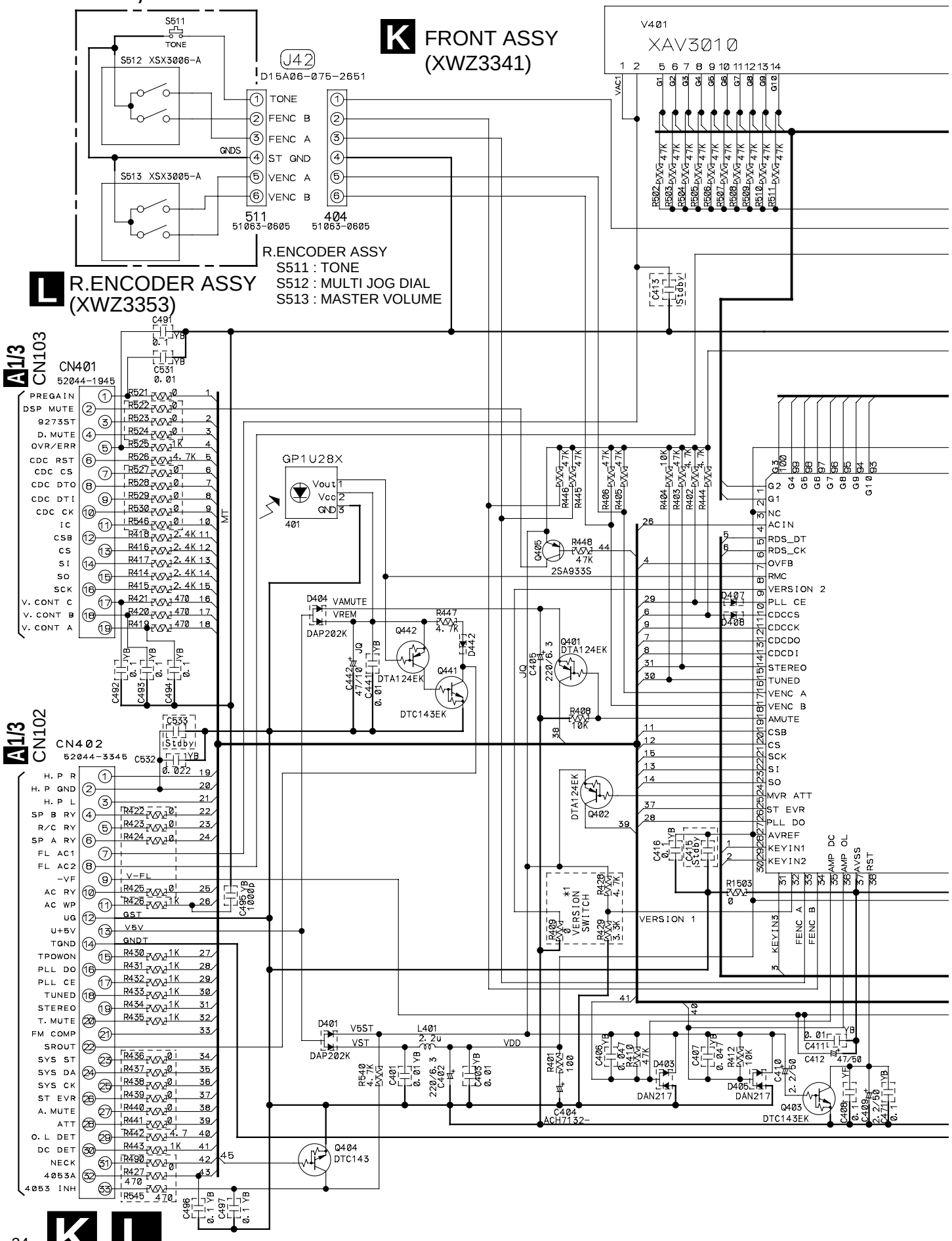


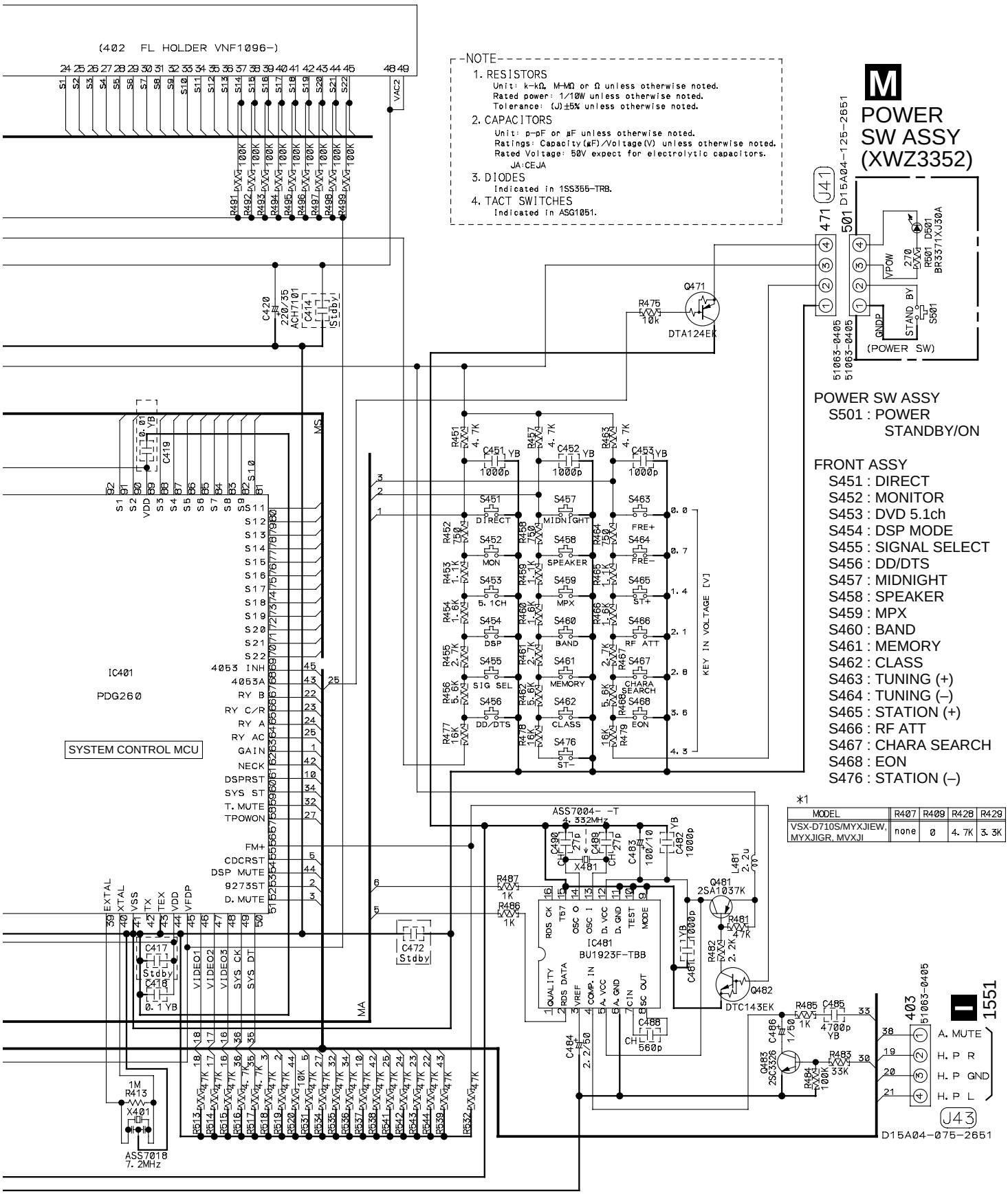
K 403

I H.P. ASSY (XWZ3356)



3.9 FRONT, R. ENCODER and POWER SW ASSYS




(402 FL HOLDER VNF1096-)
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JA:CEJA
3. DIODES
Indicated in 1SS355-TRB.
4. TACT SWITCHES
Indicated in ASG1051.
M
POWER
SW ASSY
(XWZ3352)
J41
D15A04-125-2651
(POWER SW)
POWER SW ASSY
S501 : POWER
STANDBY/ON
FRONT ASSY
S451 : DIRECT
S452 : MONITOR
S453 : DVD 5.1ch
S454 : DSP MODE
S455 : SIGNAL SELECT
S456 : DD/DTS
S457 : MIDNIGHT
S458 : SPEAKER
S459 : MPX
S460 : BAND
S461 : MEMORY
S462 : CLASS
S463 : TUNING (+)
S464 : TUNING (–)
S465 : STATION (+)
S466 : RF ATT
S467 : CHARA SEARCH
S468 : EON
S476 : STATION (–)
KEY IN VOLTAGE [V]
IC401
PDG260
SYSTEM CONTROL MCU
IC481
BU1923F-TBB
ASS7004- -T
4.332MHz
ASS7018
7.2MHz
J43
D15A04-075-2651
*1
MODEL | R407 | R409 | R428 | R429
VSX-D710S/MYXJIEW, MYXJIGR, MVXJI | none | 0 | 4.7K | 3.3K

3.10 S. VIDEO, BOARD TO BOARD, FRONT VIDEO and COMPONENT ASSYS

NJM2296D control port status

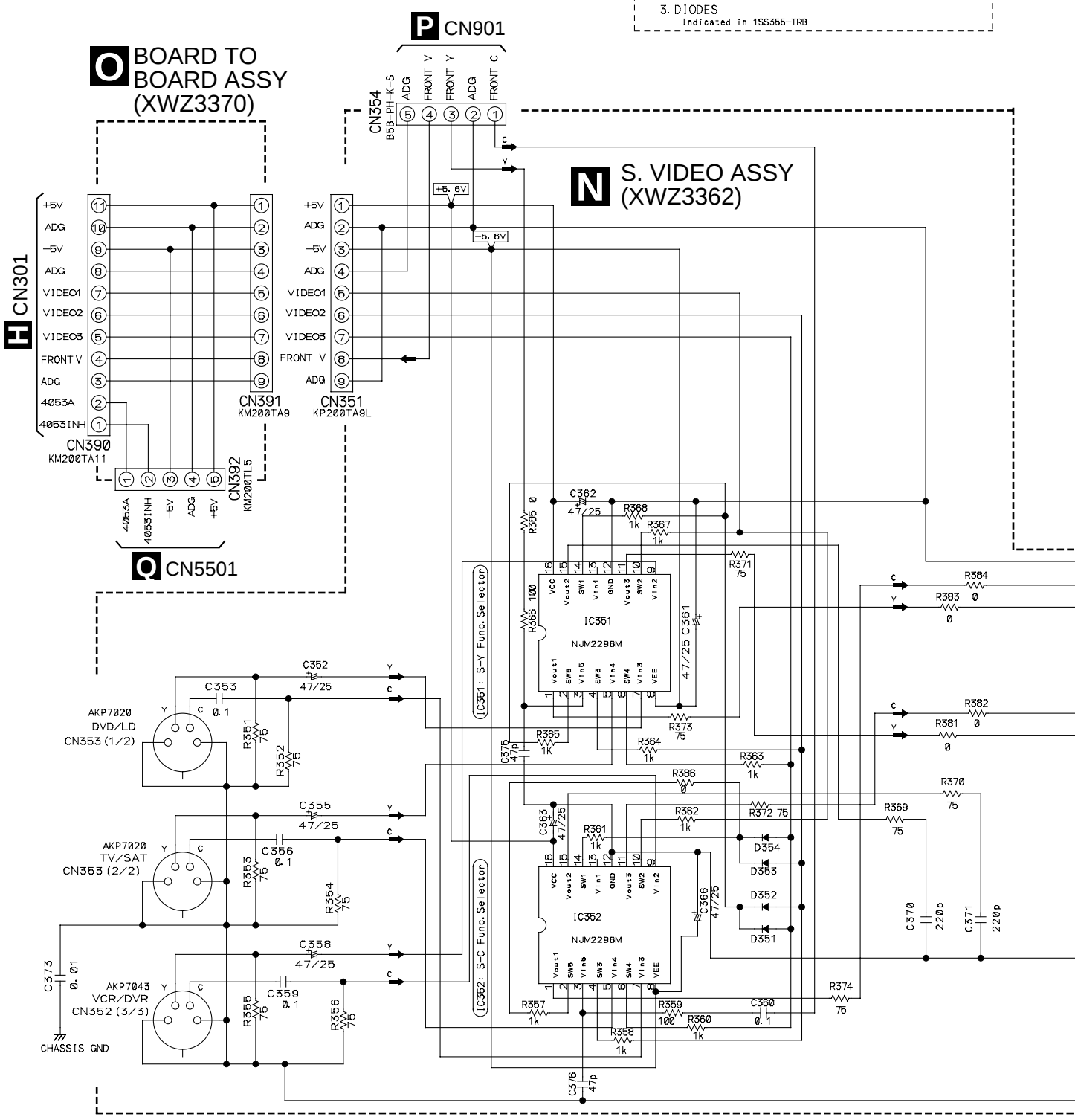
SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

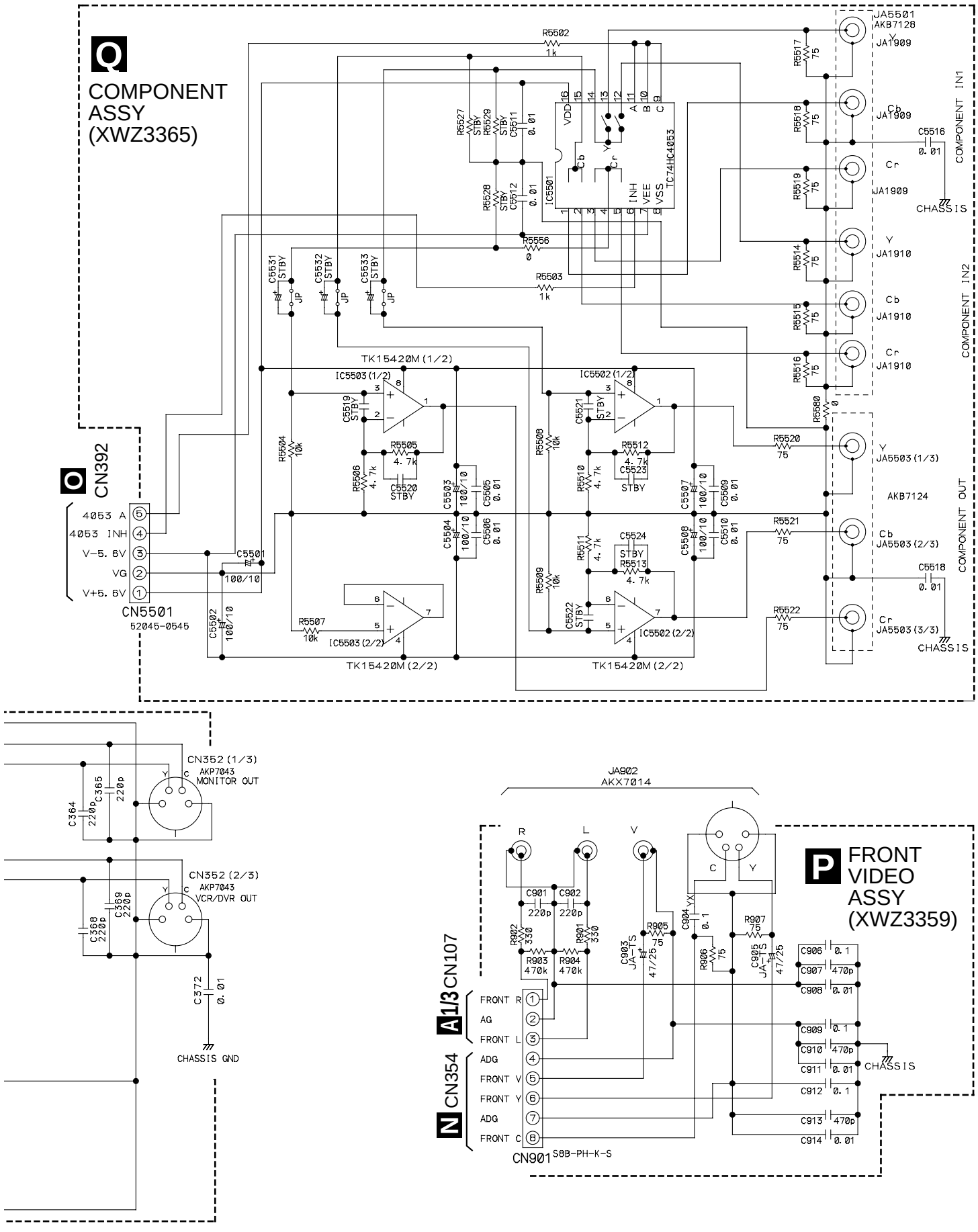
VIN 2. VCR/DVR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT VIDEO

Vout1. MONITOR out
Vout2. MR out
Vout3. VCR/DVR out

Video Signal Flow
Audio Signal Flow

NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
Indicated in 1SS355-TRB




Q
COMPONENT ASSY (XWZ3365)
CN392
4053 A
4053 INH
V-5.6V
VG
V+5.6V
CN5501
52045-0545
C5501
100/10
C5502
100/10
R5502
1k
R5503
1k
R5556
0
R5527 STBY
R5529 STBY
C5511 0.01
R5528 STBY
C5512 0.01
IC5501
TC74HC4053
VDD
VEE
VSS
INH
A
B
C
Y
Cb
Cr
C5531 STBY
C5532 STBY
C5533 STBY
JP
TK15420M(1/2)
IC5503(1/2)
IC5502(1/2)
C5519 STBY
C5521 STBY
R5504 10k
R5505 4.7k
R5506 4.7k
C5520 STBY
R5508 10k
R5512 4.7k
R5510 4.7k
C5523 STBY
C5503 100/10
C5505 0.01
C5504 100/10
C5506 0.01
C5507 100/10
C5509 0.01
C5508 100/10
C5510 0.01
R5507 10k
IC5503(2/2)
TK15420M(2/2)
R5509 10k
R5511 4.7k
C5524 STBY
R5513 4.7k
C5522 STBY
IC5502(2/2)
TK15420M(2/2)
R5517 75
R5518 75
R5519 75
R5514 75
R5515 75
R5516 75
R5580 0
R5520 75
R5521 75
R5522 75
JA5501
AKB7128
JA1909
JA1909
JA1909
JA1910
JA1910
JA1910
COMPONENT IN1
COMPONENT IN2
C5516 0.01
CHASSIS
JA5503(1/3)
JA5503(2/3)
JA5503(3/3)
AKB7124
COMPONENT OUT
C5518 0.01
CHASSIS
CN352(1/3)
AKP7043
MONITOR OUT
CN352(2/3)
AKP7043
VCR/DVR OUT
C364 220p
C365 220p
C368 220p
C369 220p
C372 0.01
CHASSIS GND
JA902
AKX7014
R
L
V
C
Y
P
FRONT VIDEO ASSY (XWZ3359)
C901 220p
C902 220p
R902 330
R901 330
R903 470k
R904 470k
C903 JA-TS 47/25
C904 YX 0.1
R905 75
R906 75
C905 JA-TS 47/25
R907 75
C906 0.1
C907 470p
C908 0.01
C909 0.1
C910 470p
C911 0.01
C912 0.1
C913 470p
C914 0.01
CHASSIS
A 1/3 CN107
FRONT R 1
AG 2
FRONT L 3
N CN354
ADG 4
FRONT V 5
FRONT Y 6
ADG 7
FRONT C 8
CN901 S8B-PH-K-S

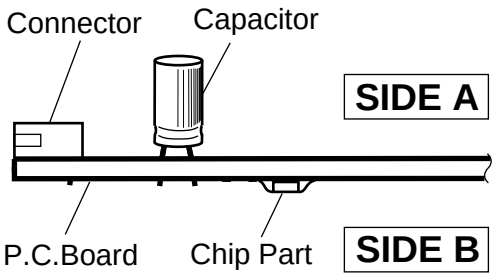
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

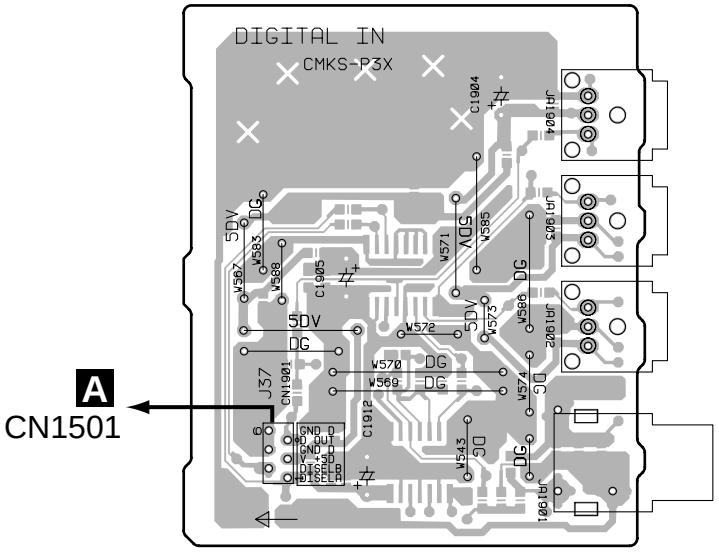
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



4.1 DIGITAL IN ASSY

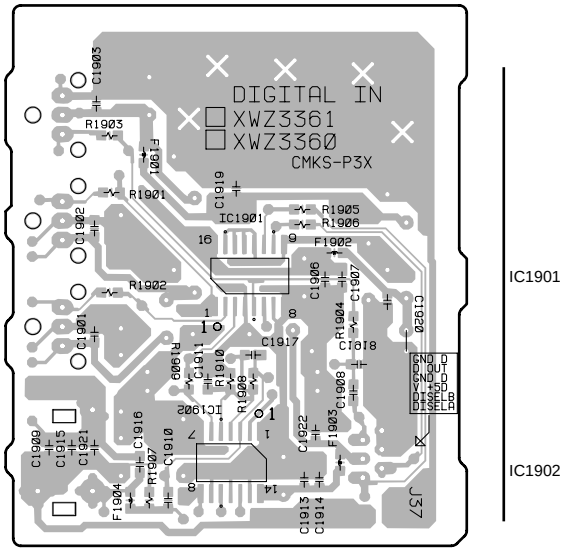
J DIGITAL IN ASSY



(XNP3035-B)

SIDE A

J DIGITAL IN ASSY

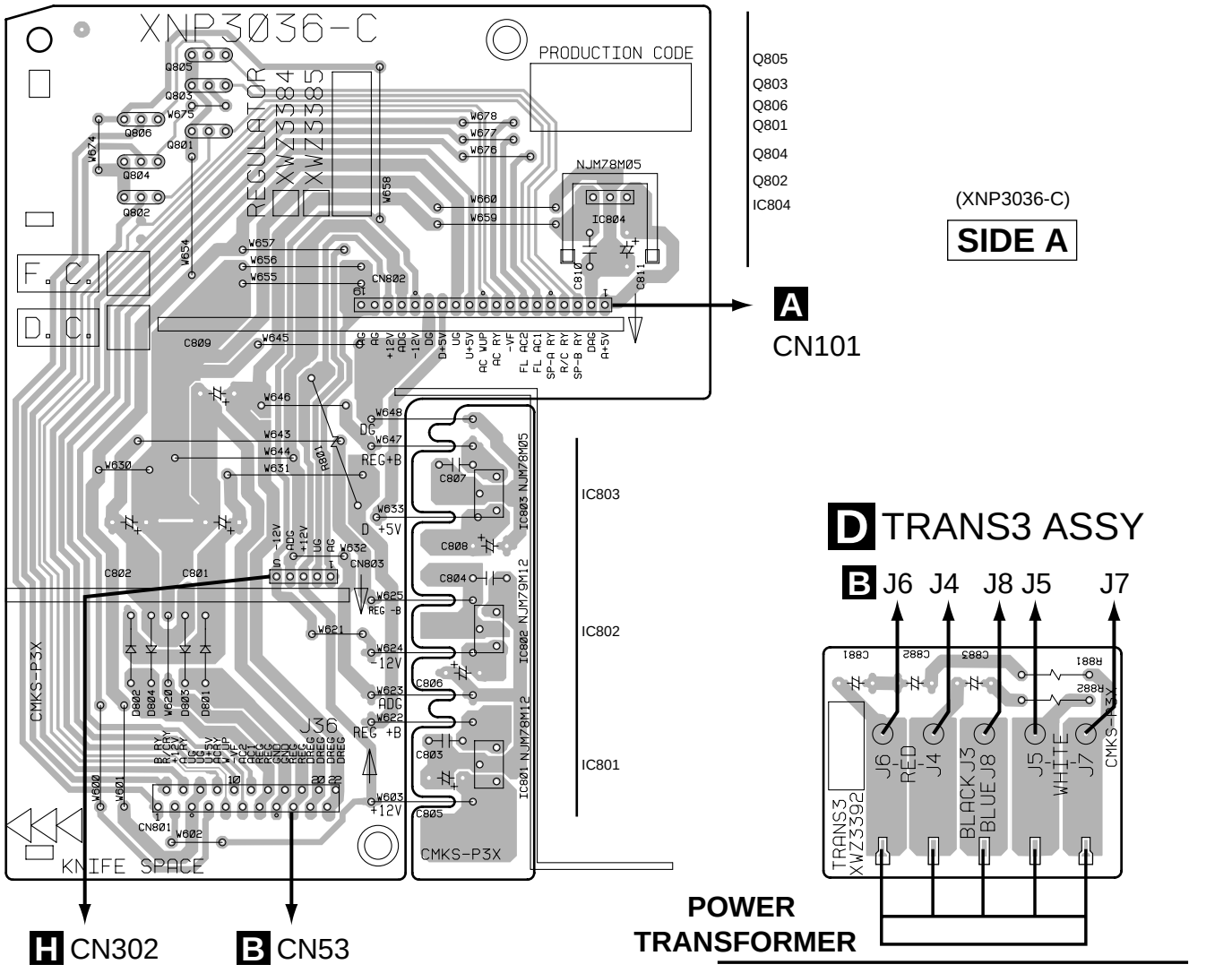


(XNP3035-B)

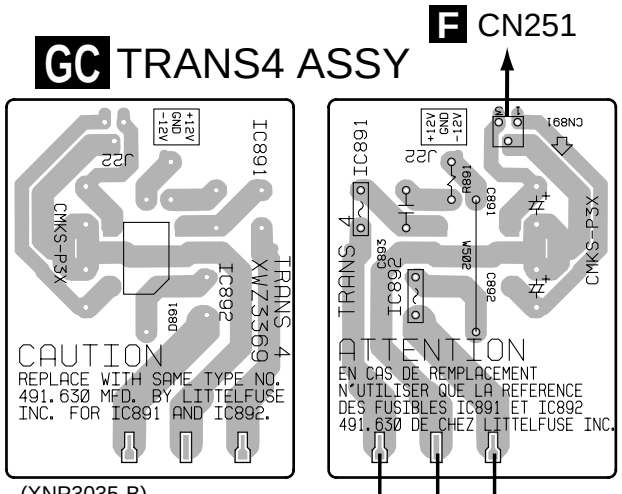
SIDE B

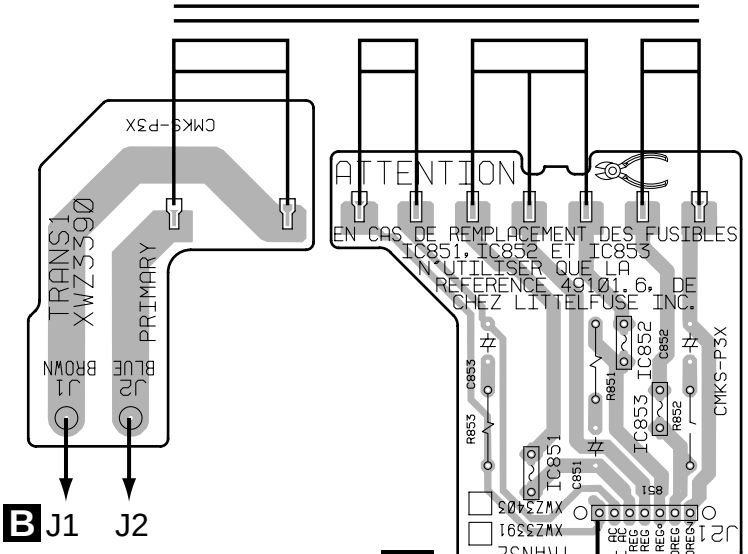
4.2 TRANS2, TRANS3, REGULATOR, TRANS1 and TRANS4 ASSYS

E REGULATOR ASSY



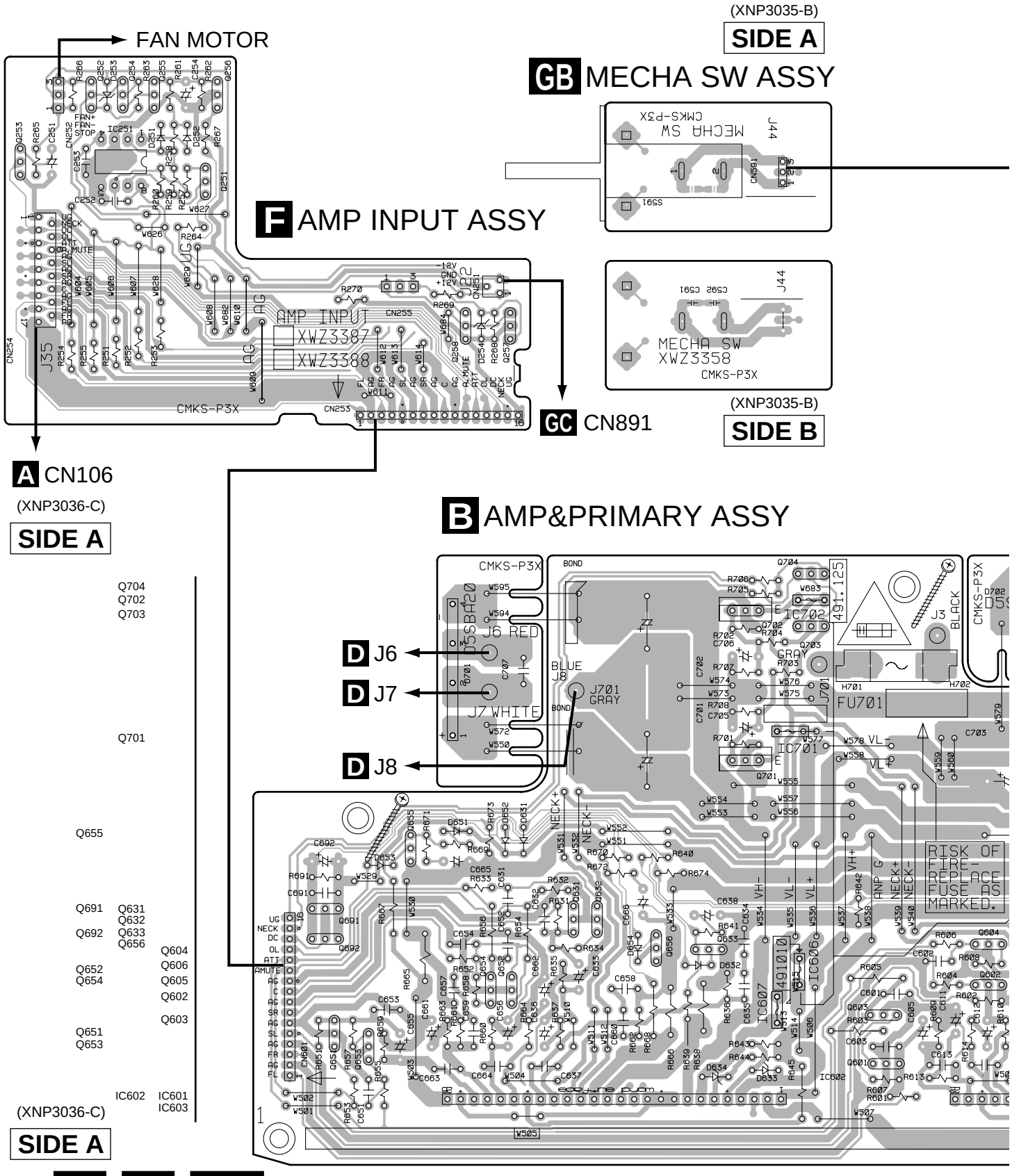
GC TRANS4 ASSY

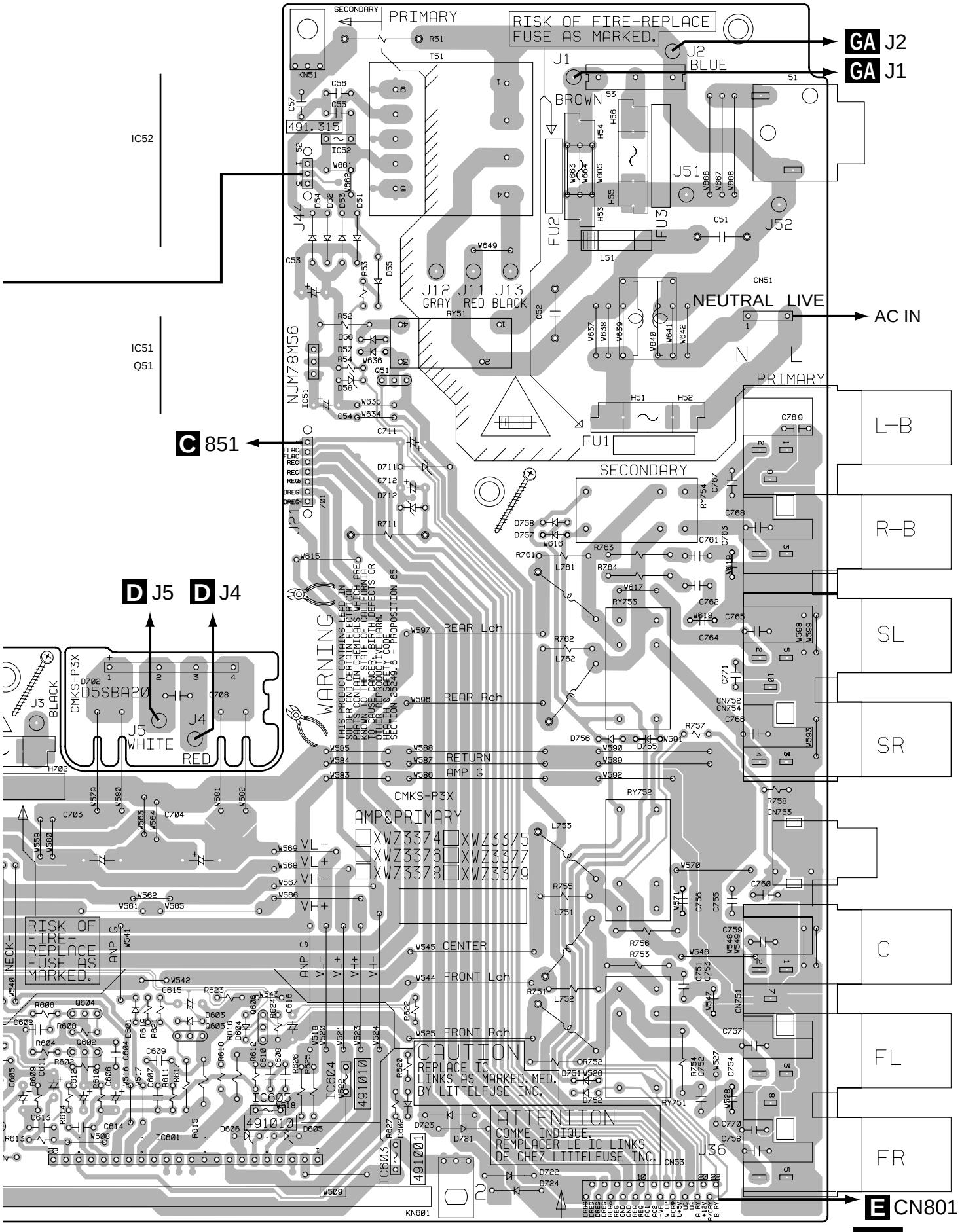




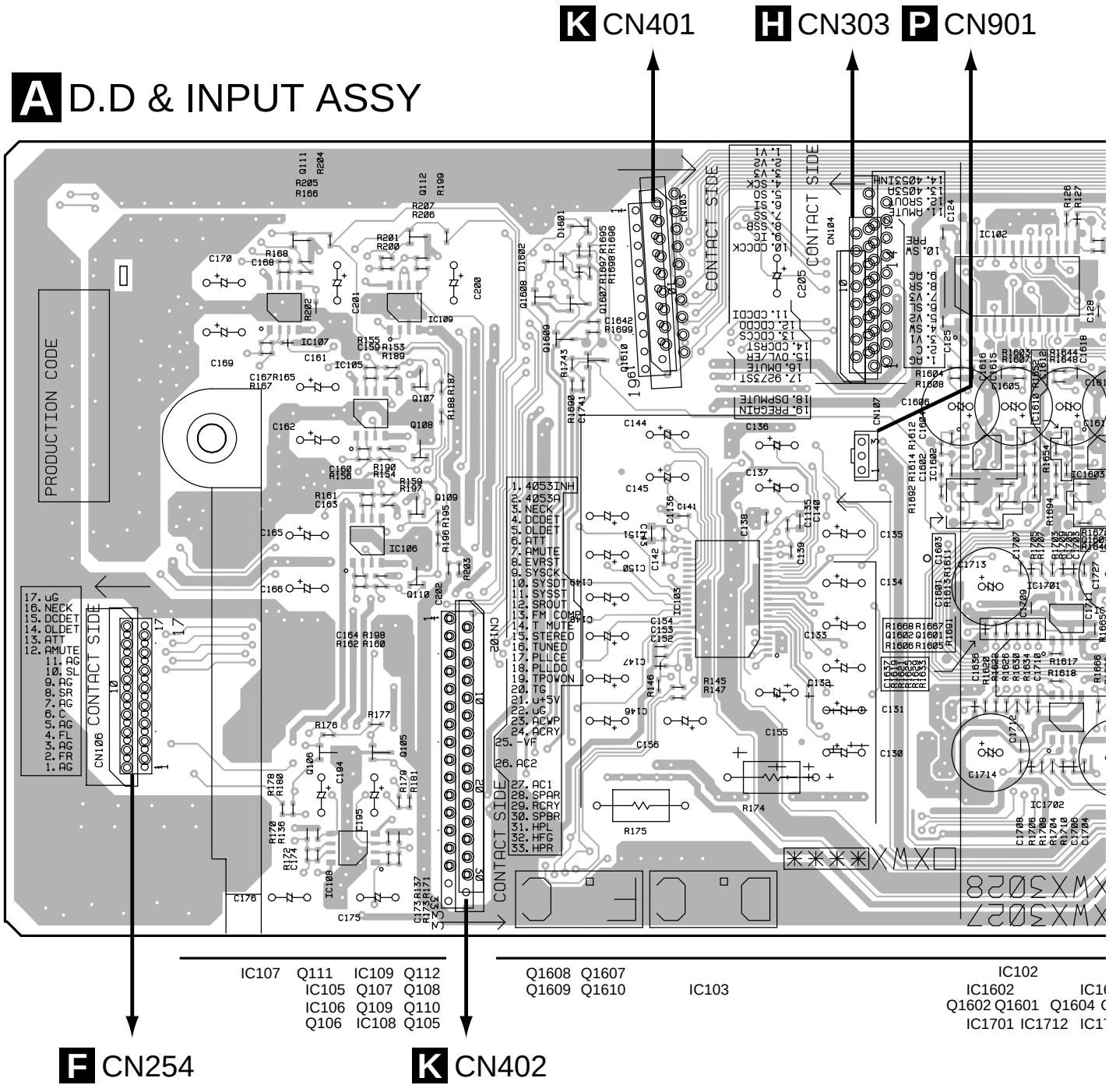
C D E GA GC

4.3 AMP INPUT, AMP&PRIMARY and MECHA SW ASSYS

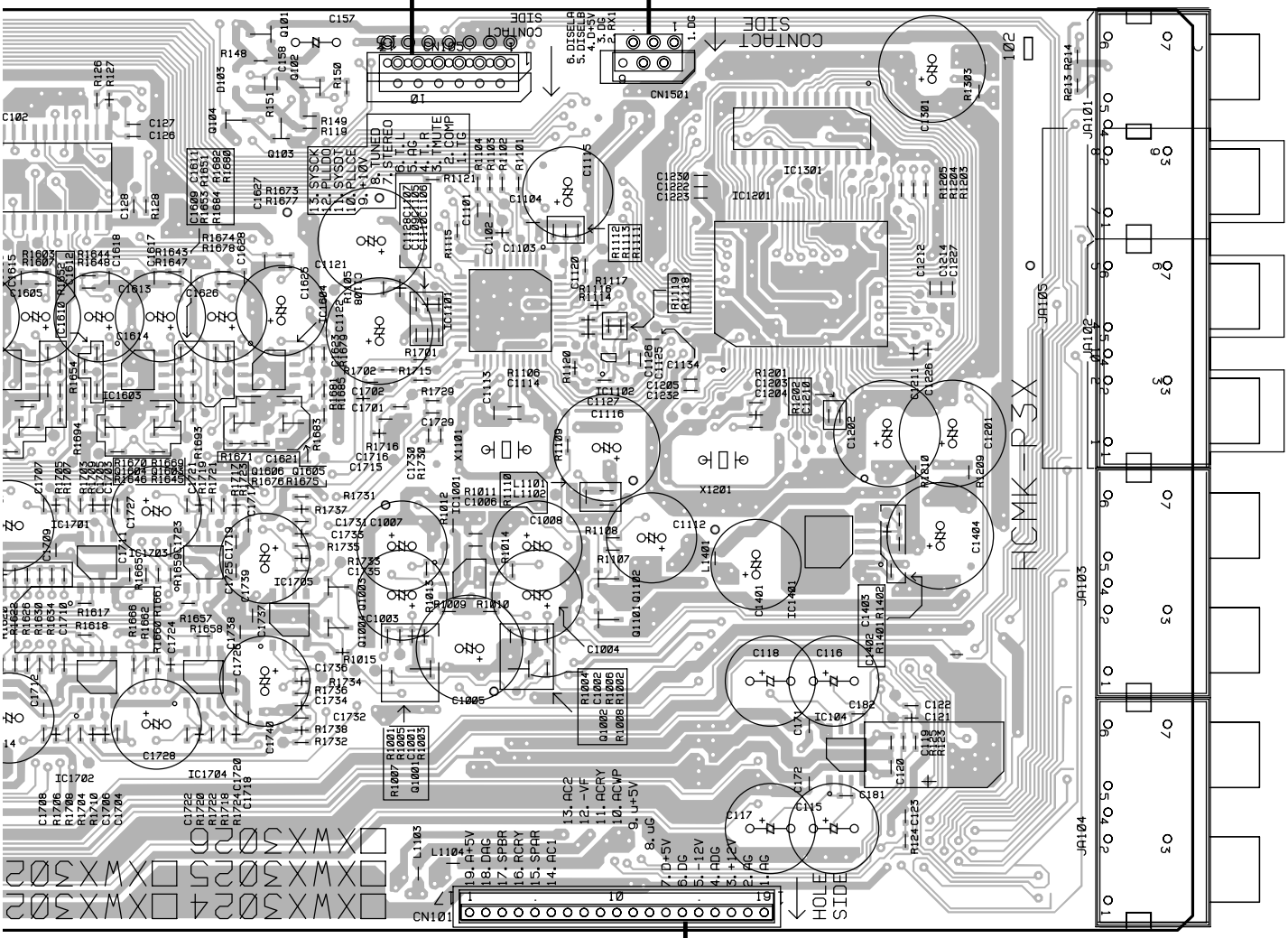



SECONDARY
PRIMARY
RISK OF FIRE-REPLACE FUSE AS MARKED.
GA J2
GA J1
J2 BLUE
J1 BROWN
J51
J52
FU1
FU2
FU3
NEUTRAL LIVE
AC IN
J12 J11 J13 GRAY RED BLACK
C 851
D J5
D J4
J5 WHITE
J4 RED
J3 BLACK
CMKS-P3X
D5SBA20
WARNING
REAR Lch
REAR Rch
RETURN
AMP G
CMKS-P3X
AMP&PRIMARY
XWZ3374 XWZ3375
XWZ3376 XWZ3377
XWZ3378 XWZ3379
CENTER
FRONT Lch
FRONT Rch
CAUTION
REPLACE IC LINKS AS MARKED. MED. BY LITTELFUSE INC.
ATTENTION
COMME INDIQUE. REMPLACER LE IC LINKS DE CHEZ LITTELFUSE INC.
IC52
IC51
Q51
NJM78M56
491.315
491010
491001
E CN801
L-B
R-B
SL
SR
C
FL
FR

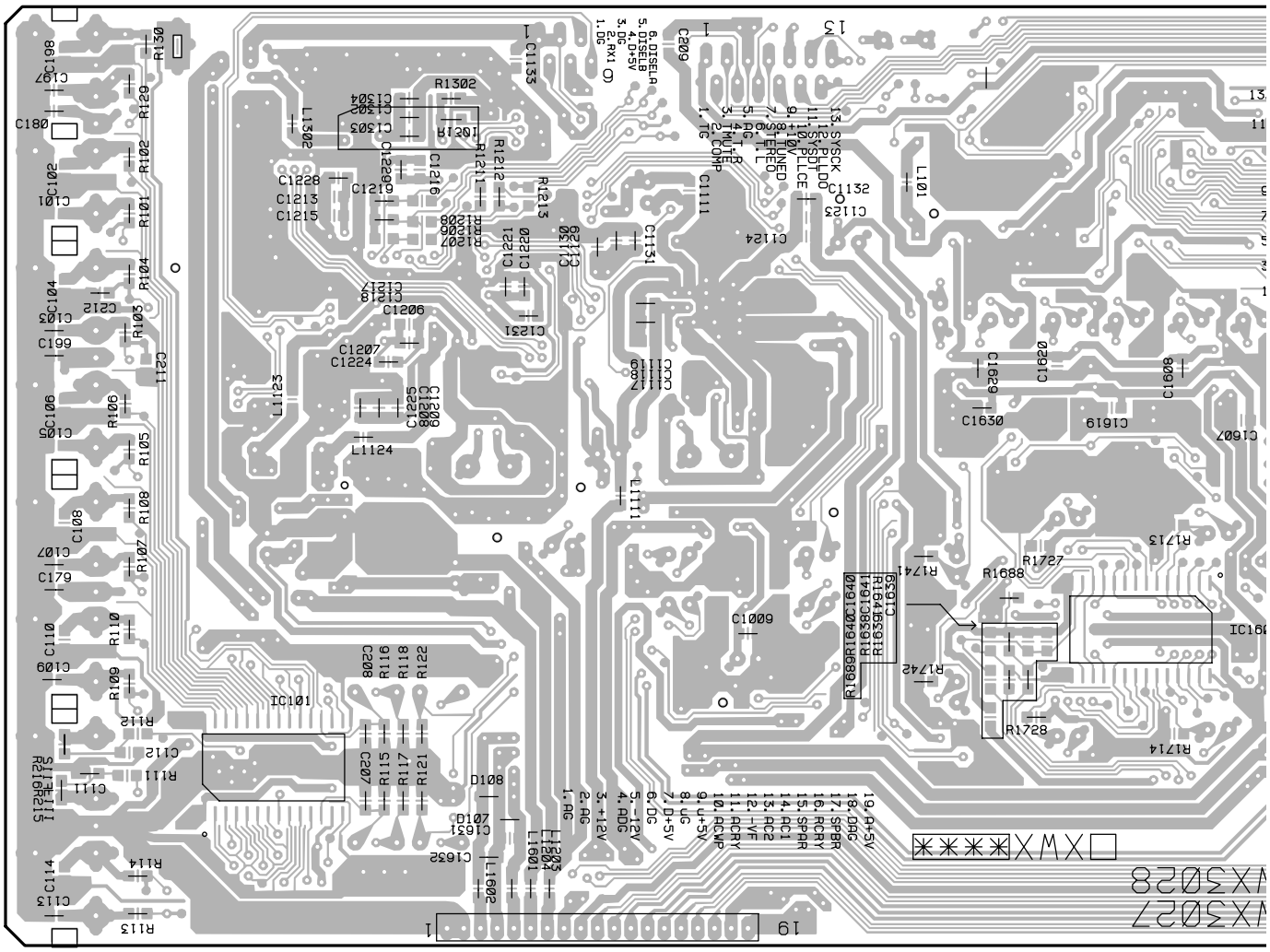
4.4 D.D & INPUT ASSY



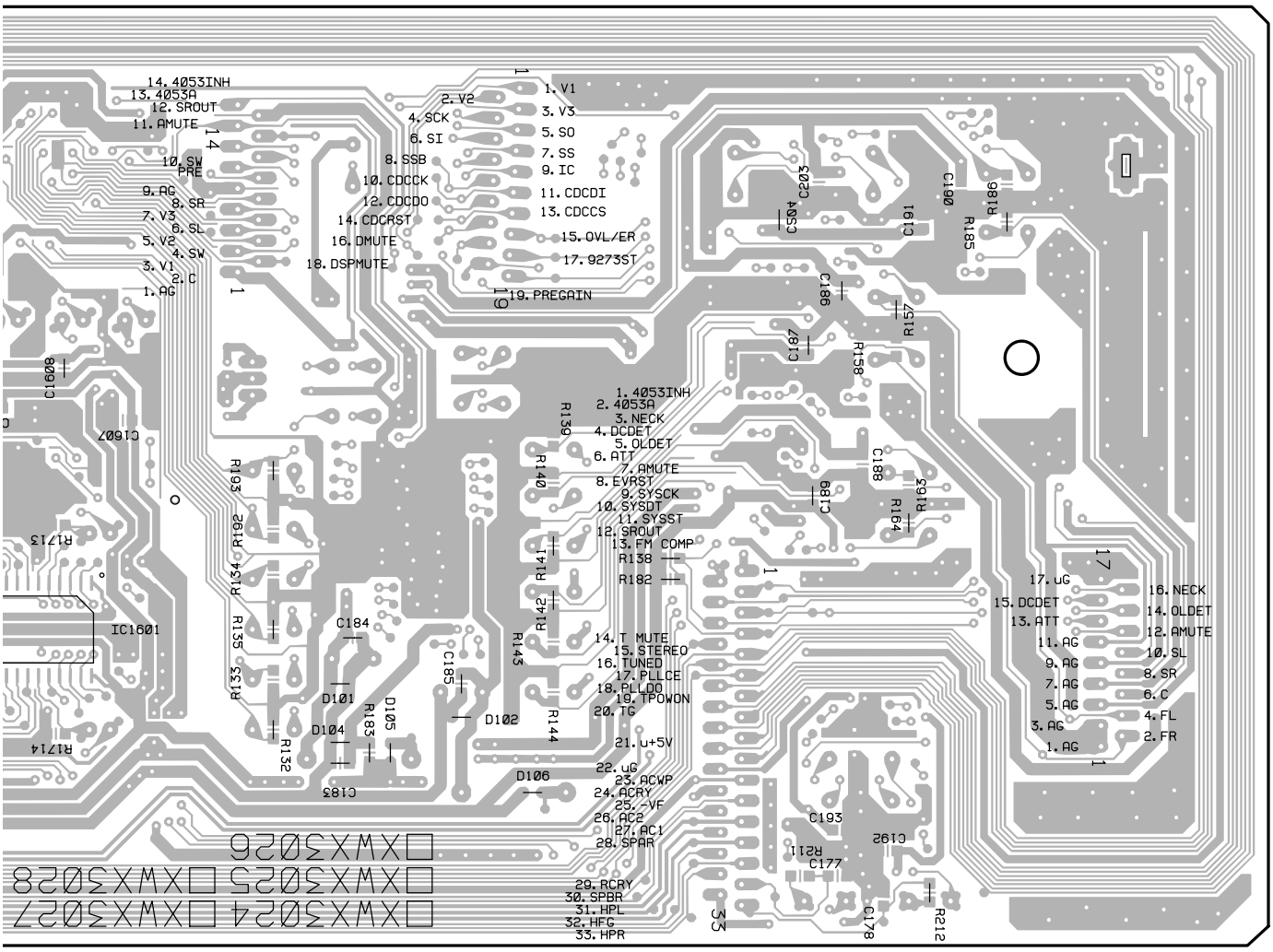
901 FM/AM TUNER UNIT **J** CN1901



A D.D & INPUT ASSY



IC101 IC1801

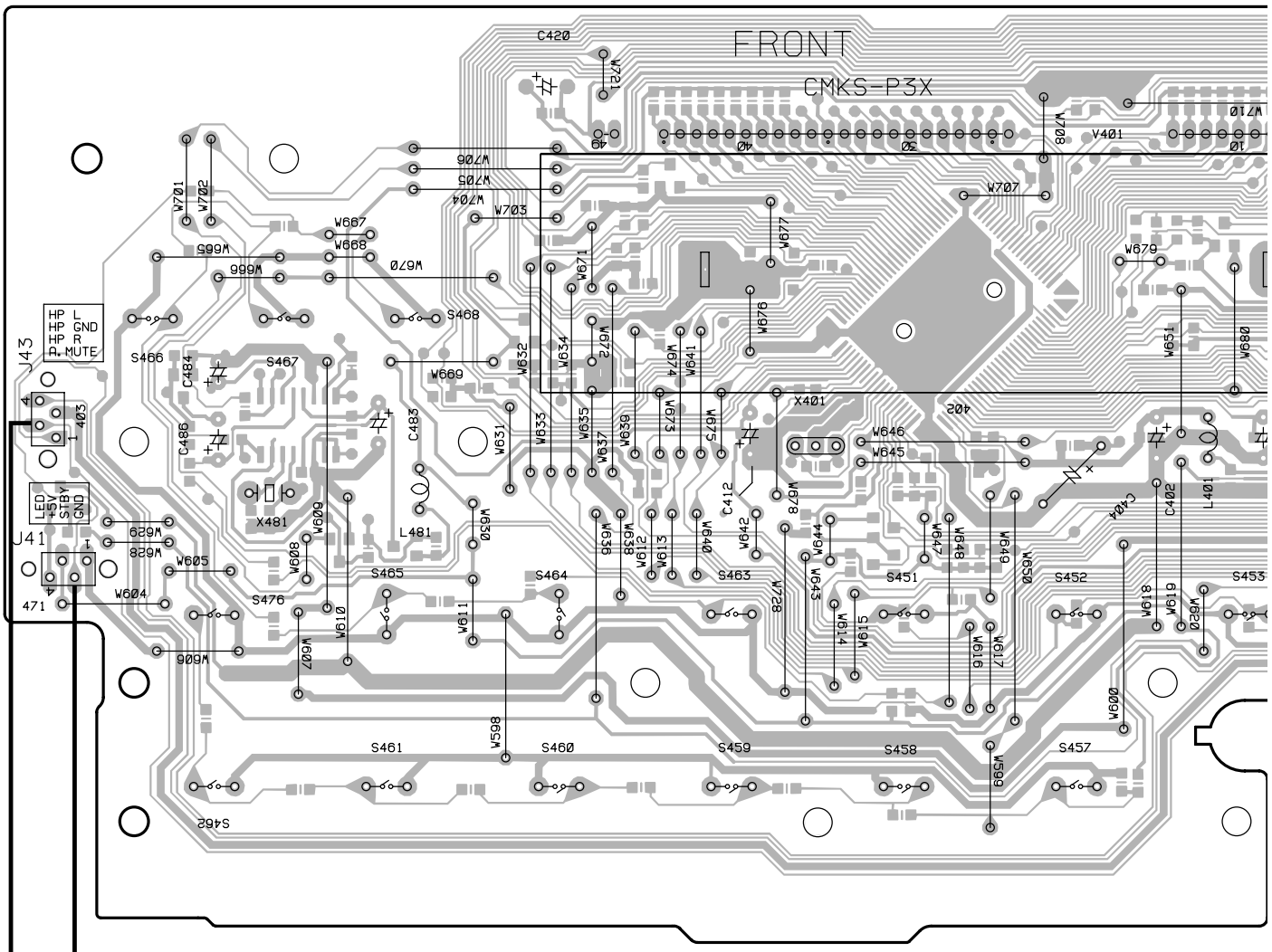


(XNP3037-A)

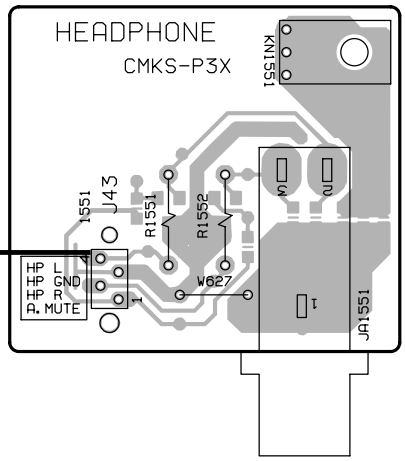
SIDE B

4.5 H.P., FRONT, R.ENCODER and POWER SW ASSYS

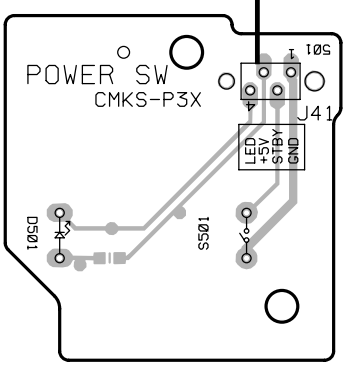
K FRONT ASSY



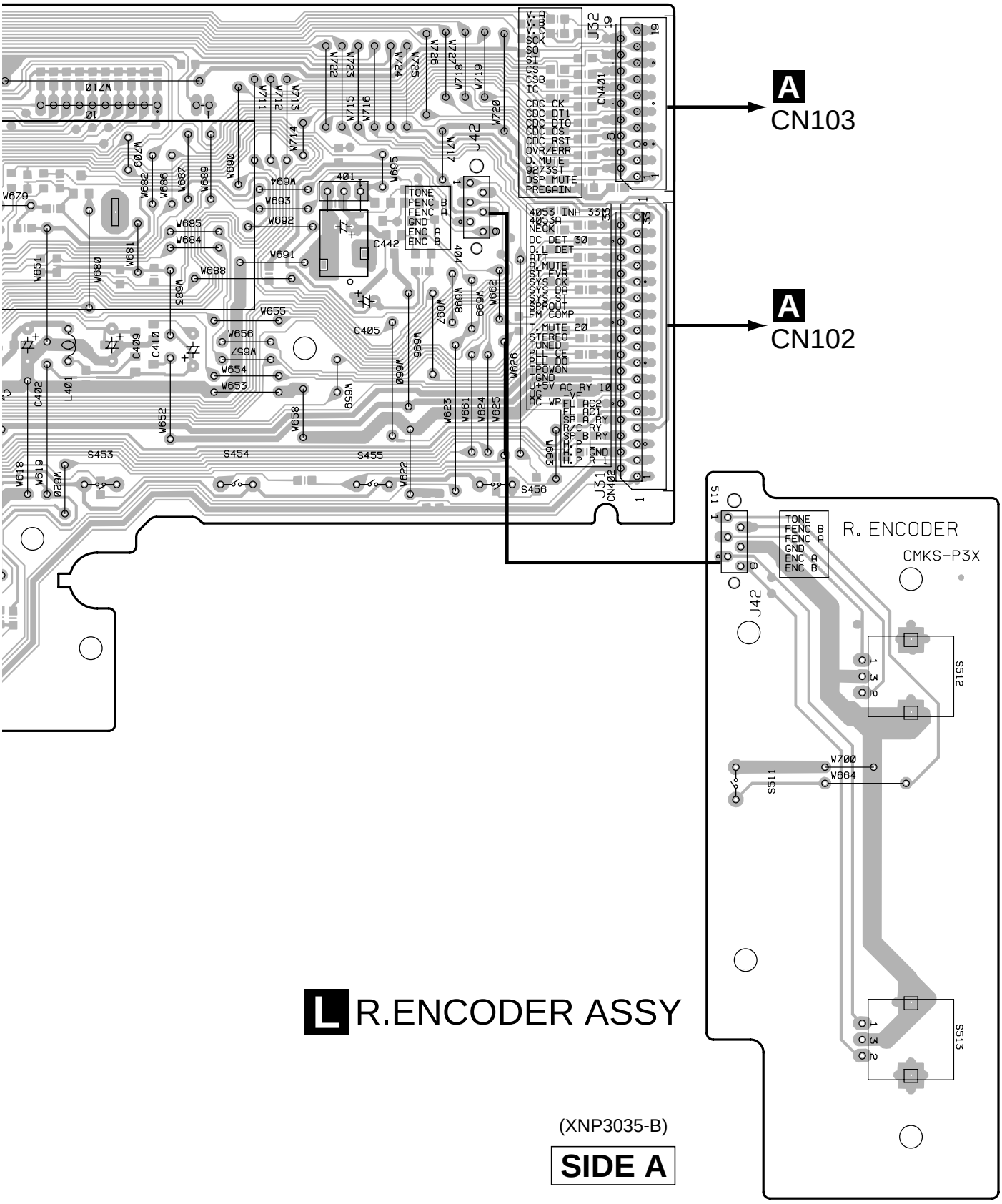
I H.P. ASSY



M POWER SW ASSY



I K M

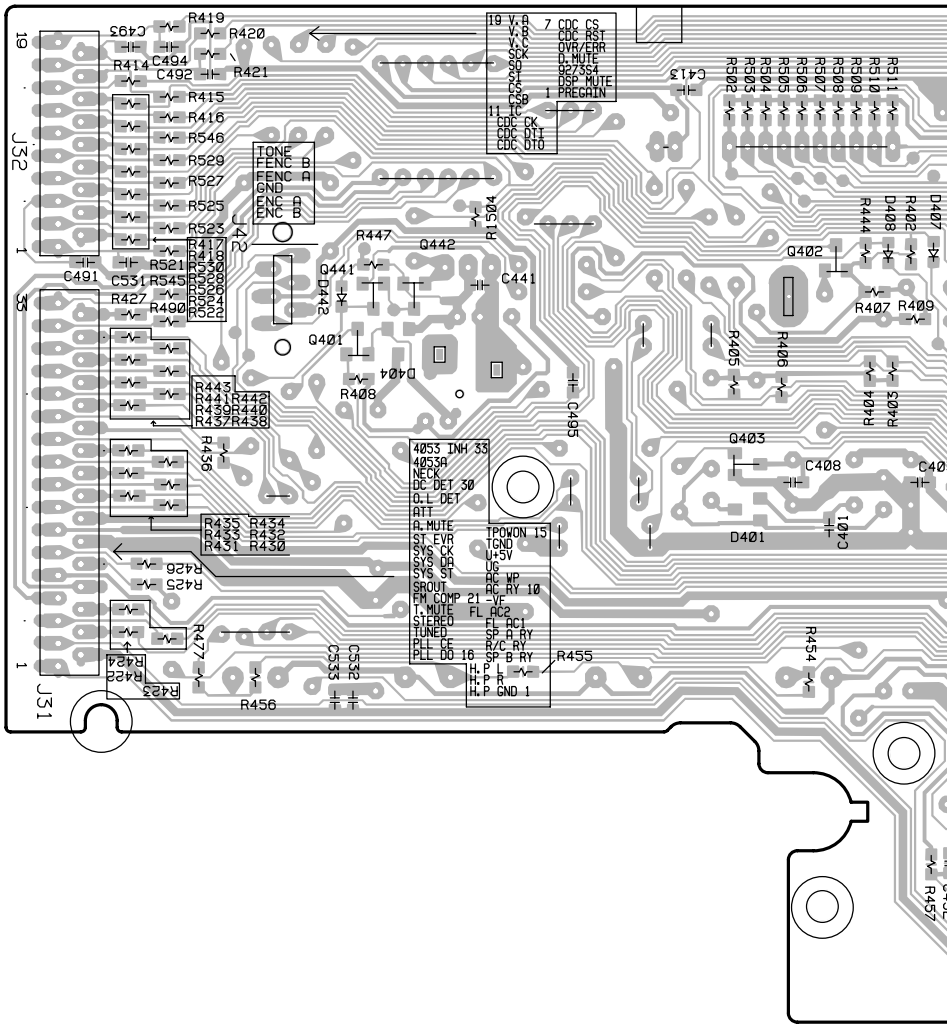


L R.ENCODER ASSY

(XNP3035-B)

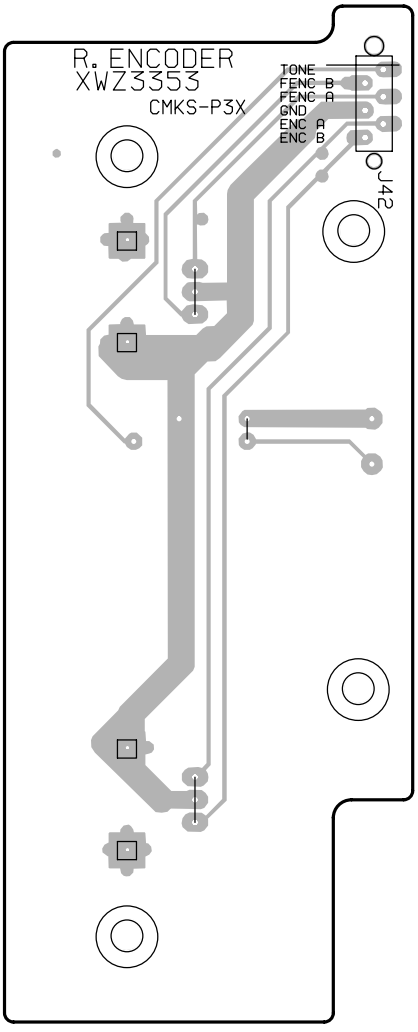
SIDE A

K FRONT ASSY



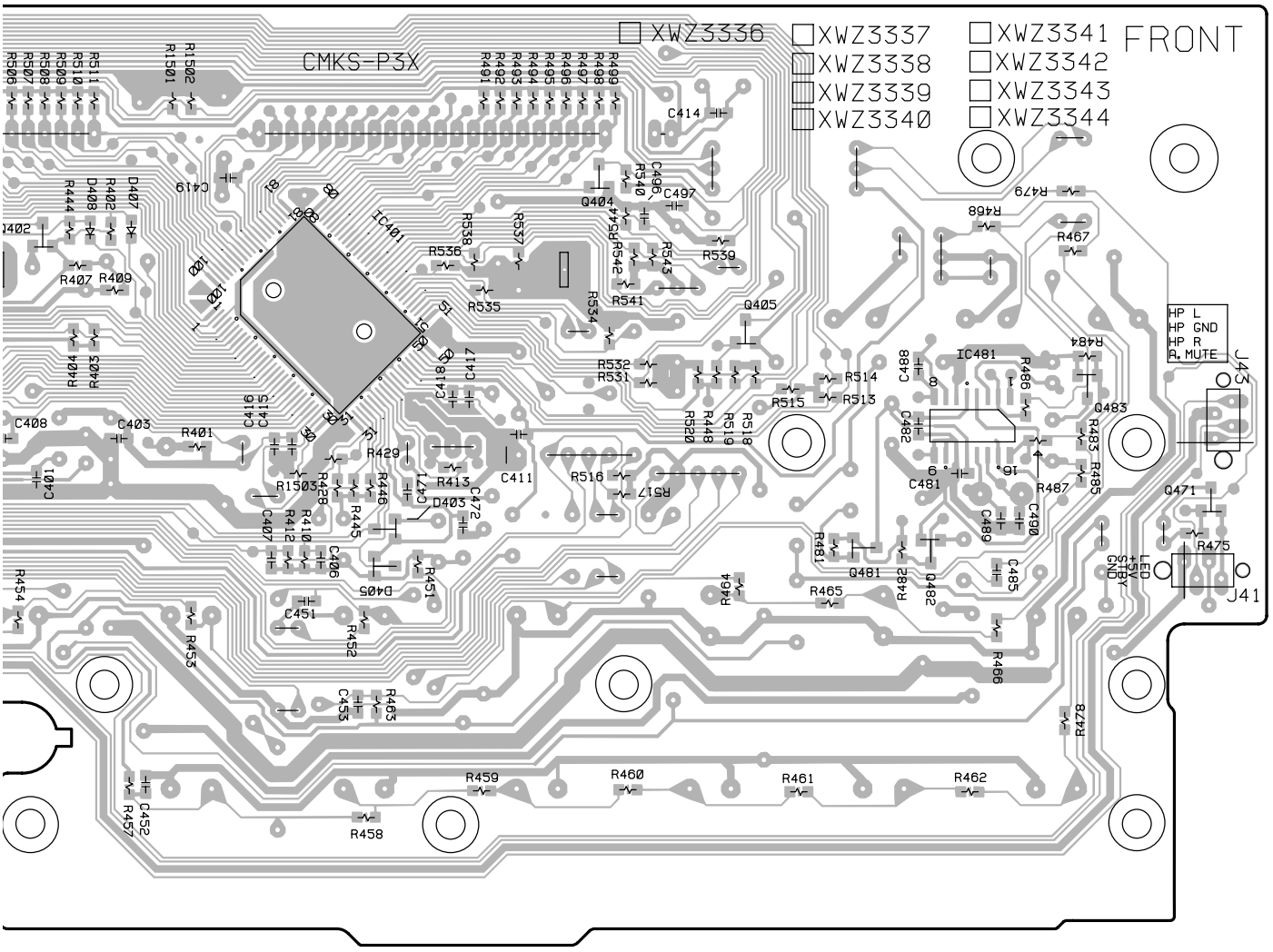
Q401 Q441 Q442 Q403 Q402

L R.ENCODER ASSY



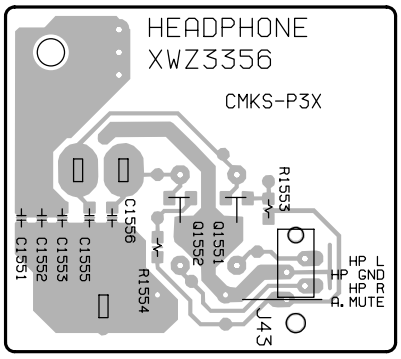
(XNP3035-B)

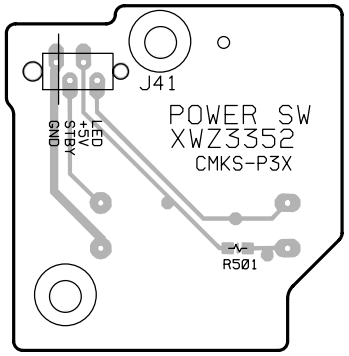
SIDE B



Q402 IC401 Q404 Q405 Q481 Q482 IC481 Q483

I H.P. ASSY

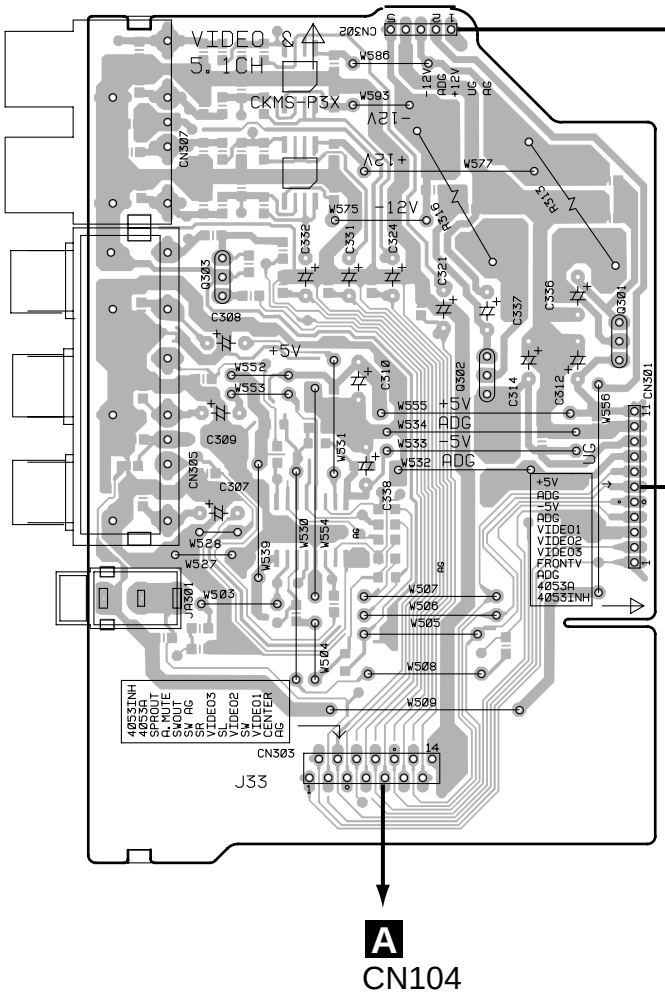




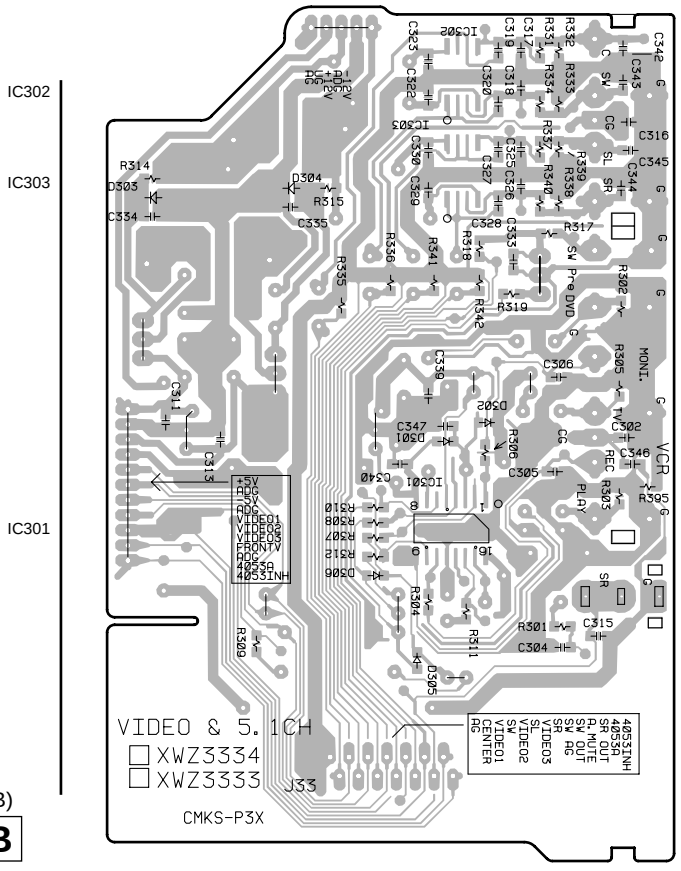
M POWER SW ASSY

4.6 VIDEO&6CH IN ASSY

H VIDEO&6CH IN ASSY

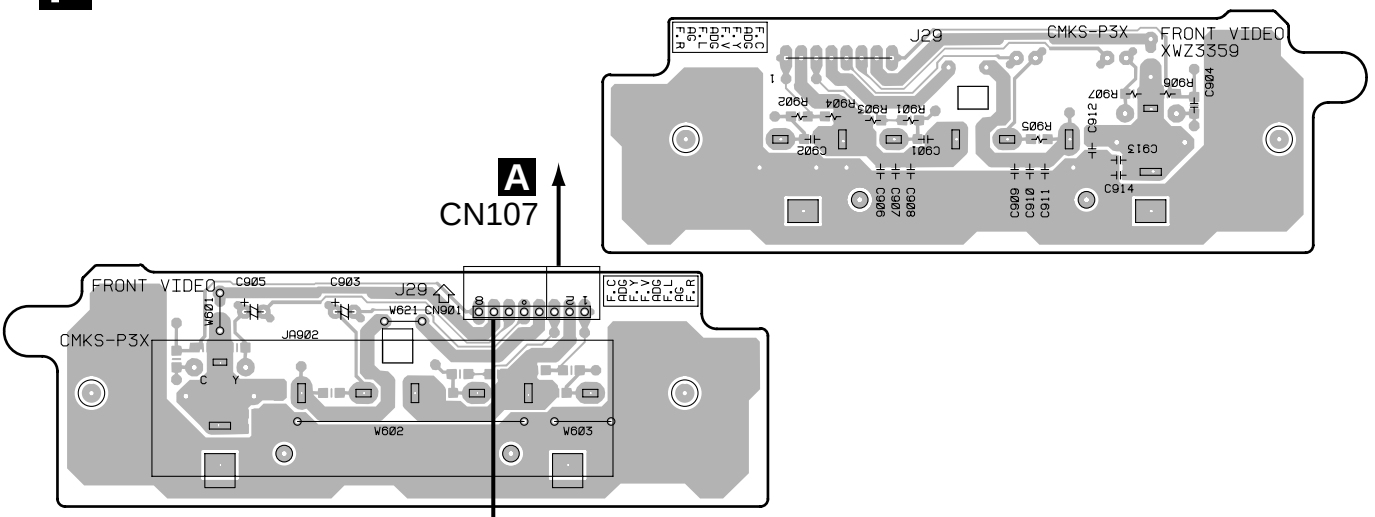


H VIDEO&6CH IN ASSY

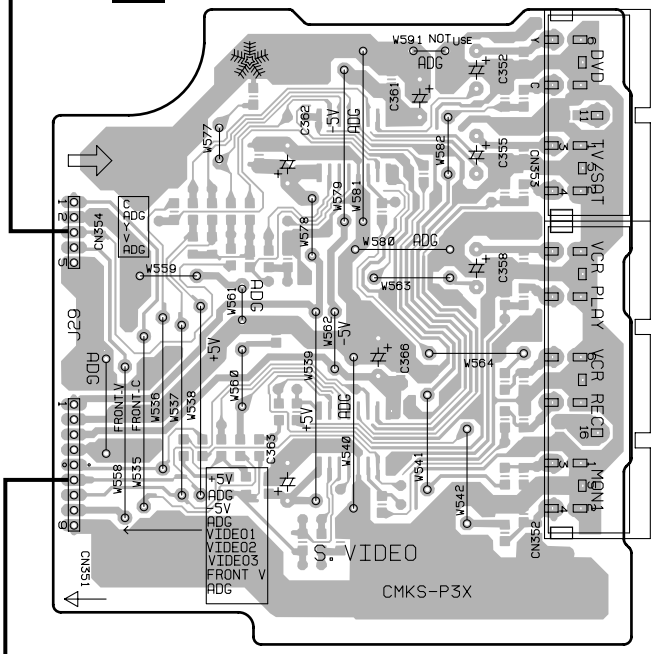


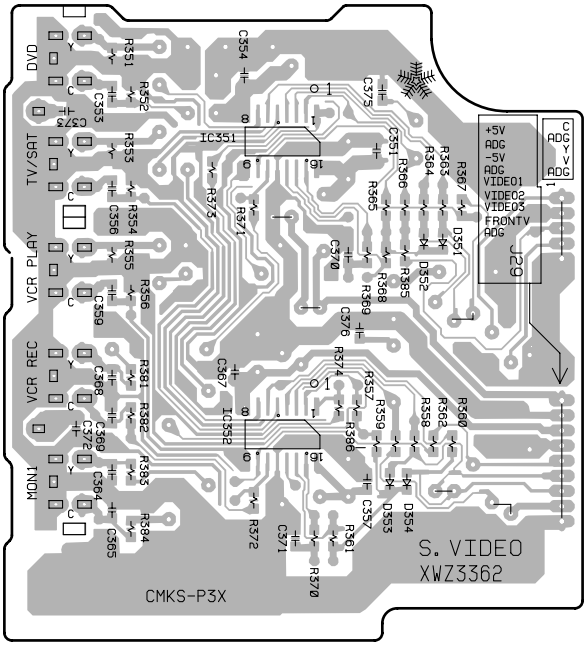
4.7 S.VIDEO, BOARD TO BOARD and FRONT VIDEO ASSYS

P FRONT VIDEO ASSY



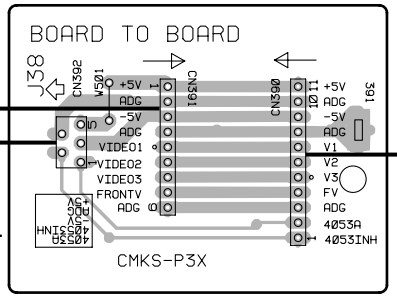
N S. VIDEO ASSY





IC351 IC352

O BOARD TO BOARD ASSY



Q CN5501

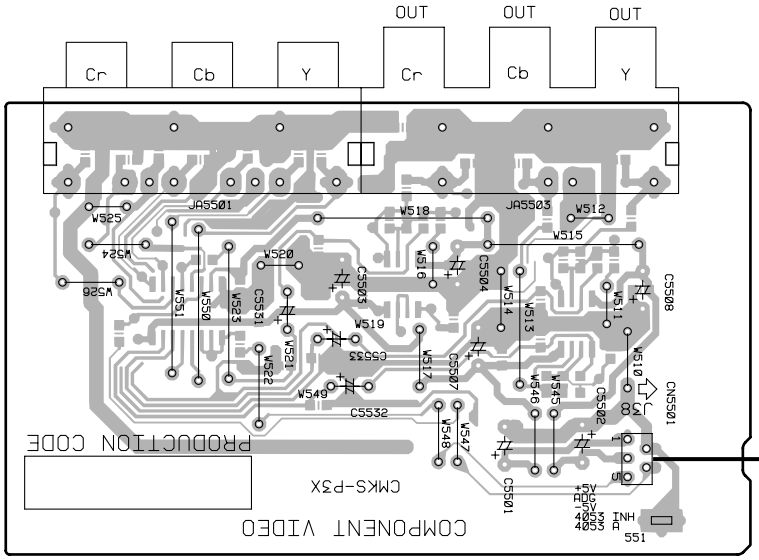
H CN301

(XNP3035-B)
SIDE A

(XNP3035-B)
SIDE B

4.8 COMPONENT ASSY

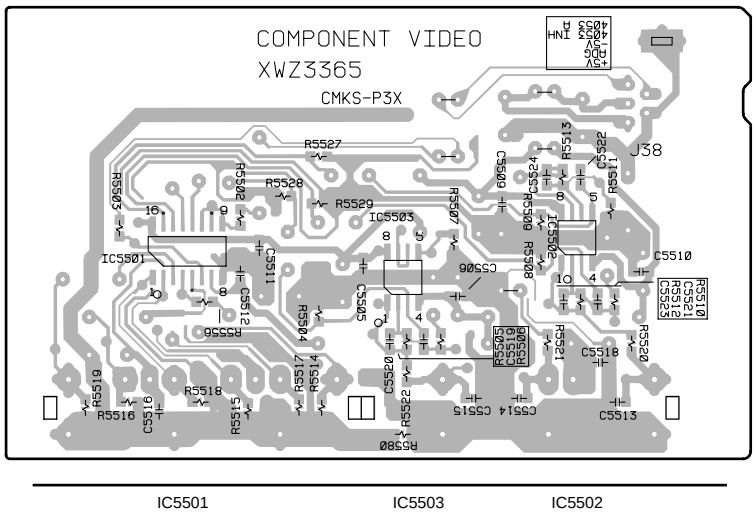
COMPONENT ASSY



(XNP3035-B)

SIDE A

COMPONENT ASSY



IC5501 IC5503 IC5502

(XNP3035-B)

SIDE B

5. PCB PARTS LIST

NOTES: ●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	*56 × 10¹*	→	*561* ..... *RD1/4PU 5 6 1 J*
47k Ω	→	*47 × 10³*	→	*473* ..... *RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*		..... *RN2H R 5 0 K*
1 Ω	→	*1R0*		..... *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→	*562 × 10¹*	→	*5621* ..... *RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Part No.
NSP		COMPLEX ASSY	XWK3006
		├ VIDEO&6CH IN ASSY	XWZ3334
		├ FRONT ASSY	XWZ3341
		├ POWER SW ASSY	XWZ3352
		├ R.ENCODER ASSY	XWZ3353
		├ H.P. ASSY	XWZ3356
		├ MECHA SW ASSY	XWZ3358
		├ FRONT VIDEO ASSY	XWZ3359
		├ DIGITAL IN ASSY	XWZ3361
		├ S.VIDEO ASSY	XWZ3362
		├ COMPONENT ASSY	XWZ3365
		├ TRANS4 ASSY	XWZ3369
		└ BOARD TO BOARD ASSY	XWZ3370
NSP		AMP&PS ASSY	XWK3020
		├ AMP&PRIMARY ASSY	XWZ3377
		├ REGULATOR ASSY	XWZ3385
		├ AMP INPUT ASSY	XWZ3387
		├ TRANS2 ASSY	XWZ3403
NSP		├ TRANS1 ASSY	XWZ3390
NSP		└ TRANS3 ASSY	XWZ3392
		D.D & INPUT ASSY	XWX3027

COMPLEX ASSY

OTHERS

J 43	JUMPER WIRED	D15A04-075-2651
J 41	JUMPER WIRED	D15A04-125-2651
J 42	JUMPER WIRED	D15A06-075-2651

AMP&PS ASSY

OTHERS

J 44	JUMPER WIRED	D20PYY0325E
J 21	JUMPER WIRED	D20PYY0715E

A D.D & INPUT ASSY

SEMICONDUCTORS

IC1101	CS4226-KQ(J)
IC1301	IS61C256AH-15J
IC108	M5216FP
IC103	M62446FP
IC1001	NJM2100M
IC1602–IC1604, IC1701–IC1705	NJM4558MD
IC1401	PQ20WZ51
IC102	TC9163AF
IC1601	TC9164AF
IC101	TC9273F-007
IC104–IC107	UPC4570G2-TFB
IC1201	YSS912C
Q101, Q102	2SC2412K
Q1001, Q1002, Q105–Q112	2SC3326
Q1601–Q1606	2SC3326
Q1003, Q1101, Q1607, Q1608, Q1610	DTA124EK
Q1004, Q1102, Q1609	DTC124EK
D1601, D1602	1SS181
D103, D105, D106	1SS355
D104	UDZS5.1B
D101, D102	UDZS6.8B

COILS AND FILTERS

L1401 CHIP SOLID INDUCTOR	ATL7002
L101, L1101–L1104, L111, L1111	QTL1013
L112, L1123, L1124, L1203, L1204	QTL1013
L1302, L1601, L1602 CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

C1001, C1002, C101–C114, C1207	CCSRCH101J50
C1209, C121, C1212, C1213	CCSRCH101J50
C1217, C1218, C122, C1221, C1223	CCSRCH101J50
C123, C126–C128, C1303	CCSRCH101J50
C152–C154, C159, C160	CCSRCH101J50
C163, C164, C1640, C1641	CCSRCH101J50
C197, C198, C207, C208	CCSRCH101J50
C1102, C1736	CCSRCH102J50
C1707, C1708, C1721, C1722, C173	CCSRCH151J50
C1735, C174	CCSRCH151J50
C1113, C1114	CCSRCH180J50
C1203, C1204	CCSRCH200J50
C211, C212	CCSRCH220J50
C1601, C1602, C1609, C1610, C167	CCSRCH221J50
C1119, C1623	CCSRCH271J50
C1123, C1124	CCSRCH331J50
C1103, C1104	CCSRCH390J50
C1101, C1106, C1110, C1118, C1130	CCSRCH471J50
C1210, C1603, C1604, C1611, C1612	CCSRCH471J50
C1639	CCSRCH471J50
C130–C137, C146	CEAT100M50
C1116, C1121, C1122, C1201, C1404	CEAT101M10
C157, C175, C176	CEAT101M16
C1112	CEAT1R0M50
C1713, C1714, C1727, C1728	CEAT220M25

Mark	No.	Description	Part No.
	C1739, C1740		CEAT220M25
	C1005, C1202		CEAT221M6R3
	C144, C145, C147–C151, C205		CEAT3R3M50
	C117, C118, C161, C162		CEAT470M25
	C165, C166, C169		CEAT470M25
	C155, C156		CEAT471M10
	C1003, C1004, C115, C116, C1401		CEAT4R7M50
	C1605, C1606, C1613, C1614		CEAT4R7M50
	C1625, C1626, C170, C194, C195		CEAT4R7M50
	C201		CEAT4R7M50
	C1115		CEATR47M50
	C1301		CEJQ101M10
	C1007, C1008		CEJQNP100M10
	C1108, C140, C143		CKSQYB224K16
	C1006, C1128, C1129, C1132, C1134		CKSRYB103K50
	C119, C120, C1205, C1206, C1208		CKSRYB103K50
	C1211, C1214–C1216, C1220, C1222		CKSRYB103K50
	C124, C125, C1302, C158		CKSRYB103K50
	C1607, C1608, C1619, C1620		CKSRYB103K50
	C1629, C1630, C1636, C1637, C1642		CKSRYB103K50
	C1709, C171, C1710–C1712, C172		CKSRYB103K50
	C1723–C1726, C1737, C1738		CKSRYB103K50
	C177–C180, C183, C186–C193		CKSRYB103K50
	C199		CKSRYB103K50
	C1135, C1136, C1705, C1706		CKSRYB104K16
	C1719, C1720, C1733, C1734		CKSRYB104K16
	C1621		CKSRYB122K50
	C168		CKSRYB152K50
	C139, C142		CKSRYB153K50
	C1615–C1618, C1627, C1703, C1704		CKSRYB222K50
	C1717, C1718, C1731		CKSRYB222K50
	C1107		CKSRYB223K50
	C1701, C1702, C1715, C1716, C1729		CKSRYB682K50
	C1732		CKSRYB682K50
	C138, C141		CKSRYB822K50
	C1105, C1109, C1226, C1227, C1230		CKSRYF104Z16
	C1232, C202		CKSRYF104Z16
	C1009, C1111, C1117, C1133, C1219		CKSRYF104Z25
	C1224, C1225, C1228, C1229, C1231		CKSRYF104Z25
	C1304, C1631, C1632, C209		CKSRYF104Z25
	C1628		CKSRYF104Z50
	C184, C185		CKSRYF473Z50

RESISTORS

Mark			
⚠	R174, R175		RS1LMF101J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN1501	CONNECTOR 6P	52045-0645
	CN105	CONNECTOR 13P	52045-1345
	CN104	CONNECTOR 14P	52045-1445
	CN106	CONNECTOR 17P	52045-1745
	CN103	CONNECTOR 19P	52045-1945
	CN102	CONNECTOR 33P	52045-3345
	JA101–JA104	PIN JACK (4P)	AKB7048
	CN107	CONNECTOR POST	B3B-PH-K
	CN101	19P SOCKET	KP200TA19L
	101, 102	PCB BINDER	VEF1040
	X1101	CRYSTAL RESONATOR (18.432MHz)	RSS1052
	X1201	CRYSTAL RESONATOR (12.288MHz)	VSS1140

Mark	No.	Description	Part No.

B AMP&PRIMARY ASSY

SEMICONDUCTORS

	IC52	PROTECTOR (315mA)	AEK7003
⚠	IC603	PROTECTOR (1A)	AEK7009
⚠	IC604–IC607	PROTECTOR (10A)	AEK7022
	IC51		NJM78M56FA
⚠	IC601		PAC010A
⚠	IC602		PAC011A
	Q703		2SA1145
	Q702		2SB1238X
	Q691, Q692		2SC1740S
	Q704		2SC1845
	Q605, Q606, Q633, Q655, Q656		2SC2240
	Q601–Q604, Q631, Q632		2SC2878
	Q651–Q654		2SC2878
	Q701		2SD1859X
	Q51		KRC101M
	D56, D57, D601–D604		1SS133
	D631, D632, D651–D654		1SS133
	D751, D752, D755–D758		1SS133
⚠	D701, D702		D5SBA20(B)
	D711		MTZJ22D
	D58		MTZJ5.1A
	D712		MTZJ5.1B
	D605, D606, D633, D634		MTZJ8.2A
⚠	D51–D55, D721–D724		S5688G

COILS AND FILTERS

⚠	L51	LINE FILTER	ATF7018
	L751–L753, L761, L762	COIL	ATH1004

SWITCHES AND RELAYS

	RY751–RY754	RELAY	XSR3002
⚠	RY51	JOE LOWPOWER RELAY	XSR3003

CAPACITORS

	C707, C708	(0.01µF/AC250V)	ACG1005
⚠	C51, C52	(10000pF/AC250V)	ACG7020
	C701, C702	(4700µF/63V)	ACH7134
	C703, C704	(3300µF/42V)	ACH7135
	C613, C614, C637, C663, C664		CCCSL101J50
	C607–C610, C634, C635		CCCSL6R0D50
	C657–C660		CCCSL6R0D50
	C615, C616, C638, C665, C666		CEANP2R2M50
	C705, C706		CEAT100M2A
	C712		CEAT101M10
	C611, C612, C636, C661, C662		CEAT101M16
	C711		CEAT101M35
	C53		CEAT102M16
	C692		CEAT221M10
	C54		CEAT470M25
	C605, C606, C633, C655, C656		CEAT4R7M50
	C751–C756, C761–C764		CFTYA224J50
	C55–C57		CGCYX103M25
	C601, C602, C631, C651, C652		CKCYB102K50
	C691		CKCYB102K50
	C603, C604, C632, C653, C654		CKCYB331K50
	C769, C770		CKPUYB102K50
	C757–C759, C765–C768		CQMBA472J50

Mark	No.	Description	Part No.
RESISTORS			
⚠	R52		RD1/2PM270J
⚠	R751, R752, R755, R761, R762		RD1/4PUF101J
⚠	R753, R754, R756, R763, R764		RS1LMF4R7J
⚠	R711		RS2LMF332J
⚠	R615, R616, R638, R665, R666	(0.22Ω/5W)	XCN3001
	Other Resistors		RD1/4PU□□□J
OTHERS			
	52	3P CABLE HOLDER	51048-0300
	701	7P CABLE HOLDER	51048-0700
	CN53	22P CONNECTOR	52045-2245
	CN752	SPEAKER TERMINAL 8-P	AKE7059
	CN751	SPEAKER TERMINAL 6-P	AKE7061
	H51, H52	FUSE CLIP	AKR7001
⚠	T51	STANDBY TRANSFORMER	ATT7037
	CN601	16P PLUG	KM200TA16
	CN51	AC CODE SOCKET	RKP1751
	KN51, KN601	EARTH METAL FITTING	VNF1084
	CN753	PIN JACK 1-P	XKB3008

C TRANS2 ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
⚠	IC853	PROTECTOR (1.6A)	AEK7012
⚠	IC851, IC852	PROTECTOR (4A)	AEK7018
OTHERS			
	851	7P CABLE HOLDER	51048-0700

D TRANS3 ASSY

TRANS3 ASSY has no service part.

E REGULATOR ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC803, IC804		NJM78M05FA
	IC801		NJM78M12FA
	IC802		NJM79M12FA
	Q801, Q803, Q805		KRA103M
	Q802, Q804, Q806		KRC101M
⚠	D801–D804		S5688G
CAPACITORS			
	C808, C811		CEAT101M10
	C805, C806		CEAT101M16
	C809		CEAT222M16
	C801, C802		CEAT222M25
	C803, C804, C807, C810		CGCYX103M25
RESISTORS			
	R801		RS3LMF101J
OTHERS			
	CN801	22P CONNECTOR	52045-2245
	CN802	19P PLUG	KM200TA19
	CN803	5P PLUG	KM200TA5

F AMP INPUT ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC251		NJM4558D-D
	Q257		2SA933S
	Q251, Q256		2SC2878
	Q252		2SD1858X
	Q254		KRA103M
	Q253, Q255		KRC103M
	D251, D252		1SS133
	D253		MTZJ27D
	D254		MTZJ5.1B
CAPACITORS			
	C251		CEANP470M25
	C254		CEAT101M25
	C252, C253		CKPUYF103Z25
RESISTORS			
	All Resistors		RD1/4PU□□□J
OTHERS			
	CN251	3P CONNECTOR	52044-0345
	CN254	17P CONNECTOR	52044-1745
	CN252	PLUG 3-P	KM250MA3L
	CN253	16P SOCKET	KP200TA16L

GA TRANS1 ASSY

TRANS1 ASSY has no service part.

GB MECHA SW ASSY

Mark	No.	Description	Part No.
SWITCHES AND RELAYS			
	S591		ASG7014
CAPACITORS			
	C591, C592		CKSQYF103Z50
OTHERS			
	CN591	3PJUMPER CONNECTOR	52151-0310

GC TRANS4 ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC891, IC892	PROTECTOR (630mA)	AEK7006
	D891		S1WB(A)60SD
CAPACITORS			
	C891, C892		CEAT471M35
OTHERS			
	CN891	3P CONNECTOR	52045-0345

Mark	No.	Description	Part No.

H VIDEO&6CH IN ASSY

SEMICONDUCTORS

	IC301	NJM2296M
	IC302, IC303	NJM4558MD
	Q302	2SA1515
	Q303	2SC2878
	Q301	2SC3377
	D301, D302, D305, D306	1SS355
	D303, D304	UDZS6.2B

CAPACITORS

	C319, C320, C327, C328	CCSRCH101J50
	C342–C345	CCSRCH101J50
	C347	CCSRCH470J50
	C307–C310, C312, C314, C338	CEAT470M25
	C321, C324, C331, C332	CEAT4R7M50
	C302, C315, C316, C322, C323	CKSRYB103K50
	C329, C330, C346	CKSRYB103K50
	C339, C340	CKSRYB104K25
	C304–C306, C317, C318	CKSRYB221K50
	C325, C326	CKSRYB221K50
	C333	CKSRYB331K50
	C311, C313	CKSRYB473K25

RESISTORS

	R313, R316	RS3LMF390J
	Other Resistors	RS1/16S□□□J

OTHERS

	CN303	14P CONNECTOR	52044-1445
	CN307	PIN JACK (4P)	AKB7087
	CN305	6P PIN JACK	AKB7123
	CN301	11P SOCKET	KP200TA11L
	CN302	5P SOCKET	KP200TA5L
	JA301	JACK	RKN1004

I H.P. ASSY

SEMICONDUCTORS

	Q1551, Q1552	2SC3326

CAPACITORS

	C1553	CCSRCH471J50
	C1552	CKSRYB103K50
	C1551	CKSRYB104K16
	C1555, C1556	CKSRYB223K50

RESISTORS

⚠	R1551, R1552	RS1/2LMF121J
	Other Resistors	RS1/16S□□□J

OTHERS

	1551	CABLE HOLDER(4P)	51063-0405
	JA1551	JACK	RKN1002
	KN1551	EARTH METAL FITTING	VNF1084

Mark	No.	Description	Part No.

J DIGITAL IN ASSY

SEMICONDUCTORS

	IC1901	TC74ACT151F
	IC1902	TC74HCU04AF

COILS AND FILTERS

	F1901–F1904	CHIP BEAD DTF1067

CAPACITORS

	C1917	CCSRCH220J50
	C1918	CCSRCH221J50
	C1907, C1914	CCSRCH271J50
	C1916	CCSRCH471J50
	C1911	CCSRCH560J50
	C1904, C1905, C1912	CEAT101M10
	C1915	CKSRYB102K50
	C1906, C1910, C1913, C1919, C1920	CKSRYB103K50
	C1901–C1903, C1908, C1909	CKSRYB104K25
	C1921, C1922	CKSRYB104K25

RESISTORS

	All Resistors	RS1/16S□□□J

OTHERS

	CN1901	CONNECTOR 6P	52045-0645
	JA1902, JA1903	OPTICAL RECEIV MOD.	GP1F32R
	JA1904	OPTICAL LINK OUT	GP1F32T
	JA1901	JACK	VKB1077

K FRONT ASSY

SEMICONDUCTORS

	IC481	BU1923F
	IC401	PDG260A
	Q405, Q481	2SA1037K
	Q483	2SC3326
	Q401, Q402, Q442, Q471	DTA124EK
	Q403, Q404, Q441, Q482	DTC143EK
	D407, D408, D442	1SS355
	D403, D405	DAN217
	D401, D404	DAP202K

COILS AND FILTERS

	L401, L481	LFEA2R2J

SWITCHES AND RELAYS

	S451–S468, S476	ASG1051

CAPACITORS

	C420	(220µF/35V)	ACH7101
	C404	(0.047F/5.5V)	ACH7132
	C489, C490		CCSRCH270J50
	C488		CCSRCH561J50
	C483		CEAT101M10
	C402		CEAT221M6R3
	C409, C410, C484		CEAT2R2M50
	C412		CEAT470M50
	C486		CEATR10M50
	C405		CEJQ221M6R3

Mark	No.	Description	Part No.
	C442		CEJQ470M10
	C451–C453, C481, C482, C495		CKSRYB102K50
	C401, C403, C411, C419, C441		CKSRYB103K50
	C531		CKSRYB103K50
	C408, C416, C418, C471		CKSRYB104K16
	C491–C494, C497		CKSRYB104K16
	C496		CKSRYB104K25
	C532		CKSRYB223K25
	C485		CKSRYB472K50
	C406, C407		CKSRYB473K16

RESISTORS

	All Resistors	RS1/16S□□□J

OTHERS

403, 471	CABLE HOLDER (4P)	51063-0405
404	CABLE HOLDER (6P)	51063-0605
CN401	19P CONNECTOR	52044-1945
CN402	33P CONNECTOR	52044-3345
V401	FL TUBE	XAV3010
X481	CRYSTAL RESONATOR (4.332MHz)	ASS7004
X401	CERAMIC RESONATOR (7.2MHz)	ASS7018
401	REMOTE RECEIVER UNIT	GP1U28X

L R.ENCODER ASSY

SWITCHES AND RELAYS

S511		ASG1051
S513	ROTARY ENCODER	XSX3005
S512	ROTARY ENCODER	XSX3006

OTHERS

511	CABLE HOLDER (6P)	51063-0605

M POWER SW ASSY

SEMICONDUCTORS

D501	BR3371XJ30A

SWITCHES AND RELAYS

S501	ASG1051

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

501	CABLE HOLDER (4P)	51063-0405

N S. VIDEO ASSY

SEMICONDUCTORS

IC351, IC352	NJM2296M
D351–D354	1SS355

CAPACITORS

C375, C376	CCSRCH470J50
C352, C355, C358, C361–C363	CEAT470M25
C366	CEAT470M25
C372, C373	CKSRYB103K50
C351, C353, C354, C356, C357	CKSRYB104K25
C359, C367	CKSRYB104K25
C364, C365, C368–C371	CKSRYB221K50

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

CN353	SOCKET	AKP7020
CN352	SOCKET	AKP7043
CN354	CONNECTOR POST	B5B-PH-K
CN351	9P SOCKET	KP200TA9L

O BOARD TO BOARD ASSY

OTHERS

CN392	CONNECTOR	52045-0545
CN390	11P PLUG	KM200TA11
CN391	9P PLUG	KM200TA9

P FRONT VIDEO ASSY

CAPACITORS

C903, C905	CEJQ470M25
C908, C911, C914	CKSRYB103K50
C904, C906, C909, C912	CKSRYB104K25
C901, C902	CKSRYB221K50
C907, C910, C913	CKSRYB471K50

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

JA902	PIN JACK (4P)	AKX7014
CN901	CONNECTOR	S8B-PH-K-S

Q COMPONENT ASSY

SEMICONDUCTORS

IC5501	TC74HC4053AF
IC5502, IC5503	TK15420M

CAPACITORS

C5501–C5504, C5507, C5508	CEAT101M10
C5505, C5506, C5509–C5512, C5516	CKSRYB103K50
C5518	CKSRYB103K50

RESISTORS

All Resistors	RS1/16S□□□J

OTHERS

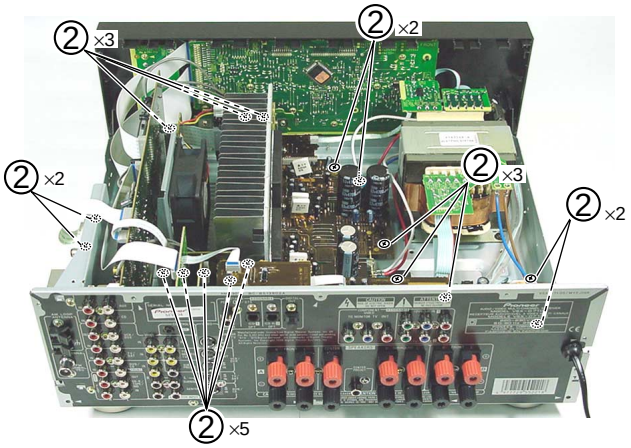
CN5501	CONNECTOR	52045-0545
JA5503	3P RCA PINJACK	AKB7124
JA5501	6P RCA PINJACK	AKB7128

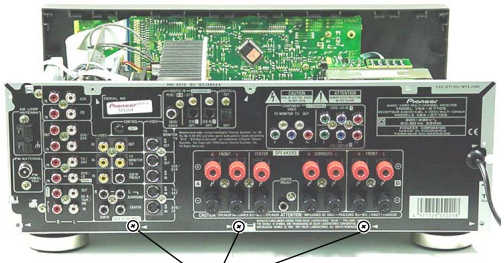
6. ADJUSTMENT

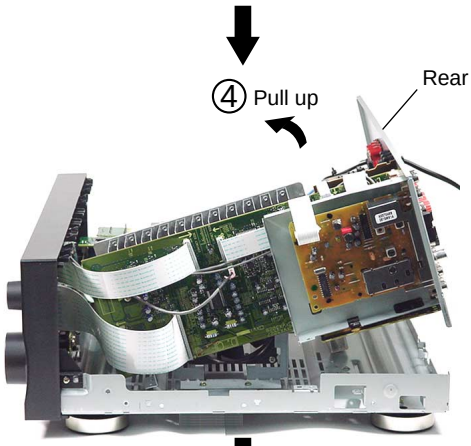
There is no information to be shown in this chapter.

7. GENERAL INFORMATION
7.1 DISASSEMBLY AND DIAGNOSIS
■ Diagnosis

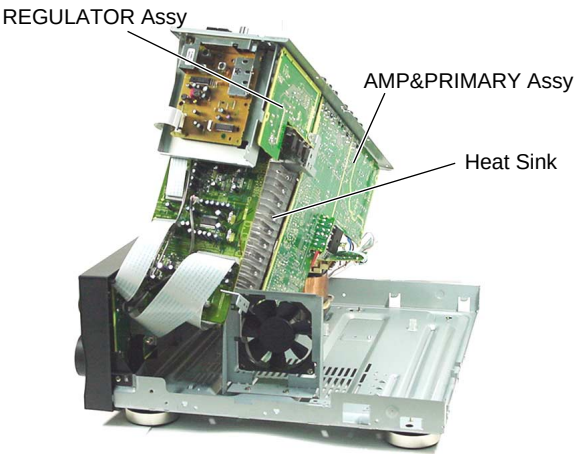
① Remove the Bonnet (seven screws).





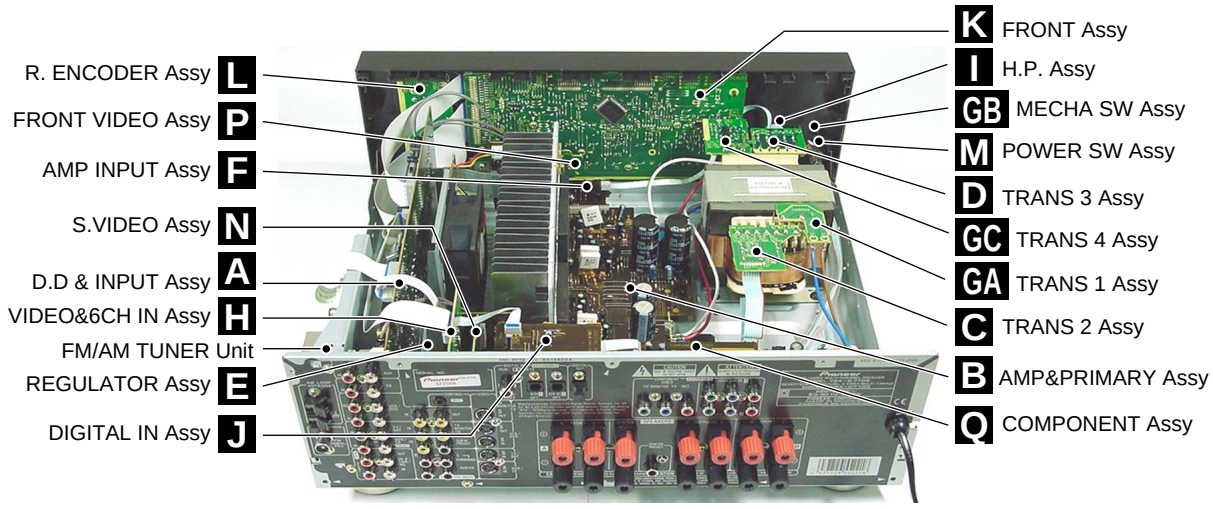


⑤ Diagnosis



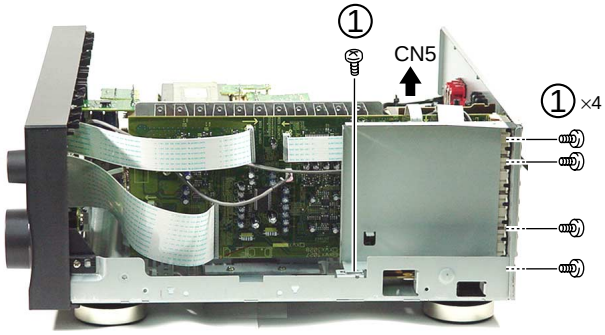
Note : The product does not operate when took off the screws of Speaker Terminal from Rear Panel.

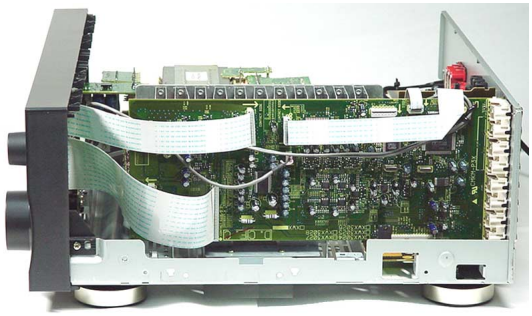
■ PCB Location



■ Diagnosis of D.D & INPUT Assy

① Remove FM/AM TUNER Unit and Shield R3 (five screws).



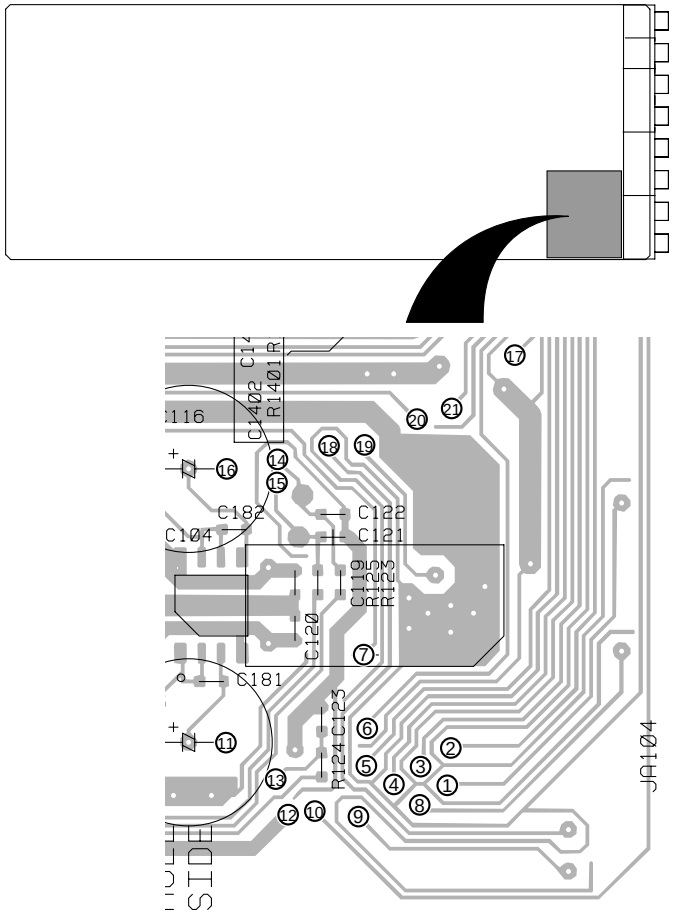


② Please check SIDE A of the D.D & INPUT Assy on this status.

Note : When FM/AM TUNER Unit was removed,
the product operates except FM/AM TUNER.

Please check IC101 mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC101 are shown as follows.

A D.D & INPUT Assy **SIDE A**



7.2 PARTS

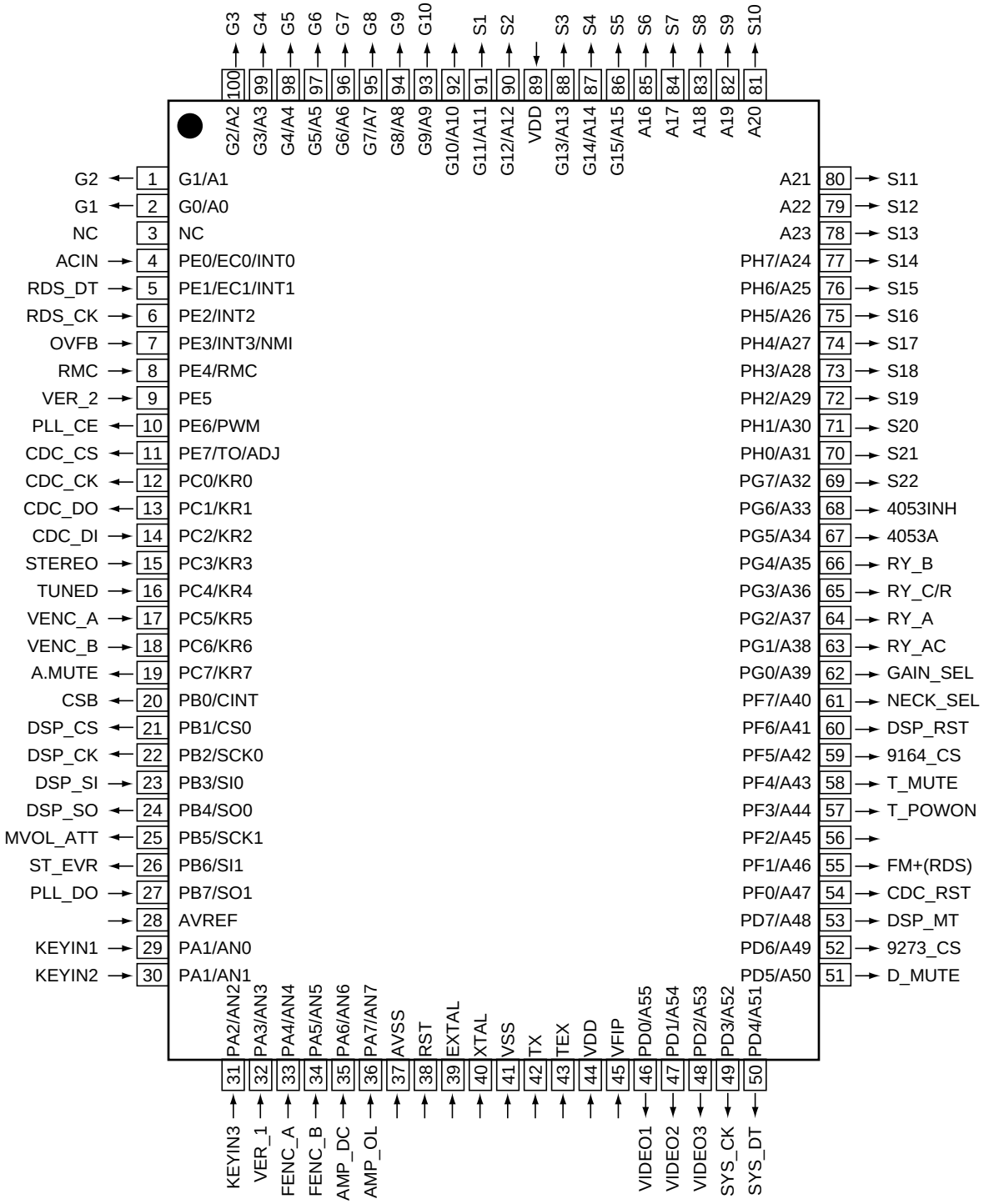
7.2.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG260A (FRONT ASSY : IC401)

• System Control MCU

● Pin Arrangement (Top View)



● Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to VDD	
4	ACIN	I	AC pulse input	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication	
7	DIRLOCK	I	ERR/OVER input from CODEC	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	VER_2	I	Destination switch 2	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	CDC_CS	O	CODEC chip serect	
12	CDC_CK	O	CODEC, TC9164 control clock	
13	CDC_DO	O	CODEC, TC9164 control data output	
14	CDC_DI	I	Data input from CODEC	
15	STEREO	I	Stereo/Monoral signal judgment signal	
16	TUNED	I	TUNED information	
17	ENC_A	I	EVOL Rotary encoder signal input A	
18	ENC_B	I	EVOL Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	CSB	O	Chip select for control of YSS912 sub DSP	L
21	DSP_CS	O	Chip select for control of YSS912 main DSP	L
22	DSP_CK	O	Clock signal for communication with YSS912	H
23	DSP_SI	I	DATA input signal for communication with YSS912	
24	DSP_SO	O	DATA output signal for communication with YSS912	H
25	MVRATT	O	ATT control of master volume (L : Less than -15dB)	H
26	ST_EVR	O	Strobe signal for communication with electric volume IC	H
27	PLL_DO	I	Data input signal for communication with LC72131 (tuner)	
28	AVref	–	Connect to VDD	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	VER_1	I	Destination switch (A/D input)	
33	FENC_A	I	FUNC Rotary encoder signal input A	
34	FENC_B	I	FUNC Rotary encoder signal input B	
35	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection) *1	L
36	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection) *2	L
37	AVSS	–	Connect to VSS	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.2MHz)	
40	XTAL	–		
41	VSS	–	Connect to VSS	
42	TX	–	Open	
43	TEX	–	Connect to VSS	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

*1 : When DC voltage was output from amplifier, "POWER OFF" is displayed at FL display.

*2 : When the output of amplifier became overload state, "OVER LOAD" is displayed at FL display.

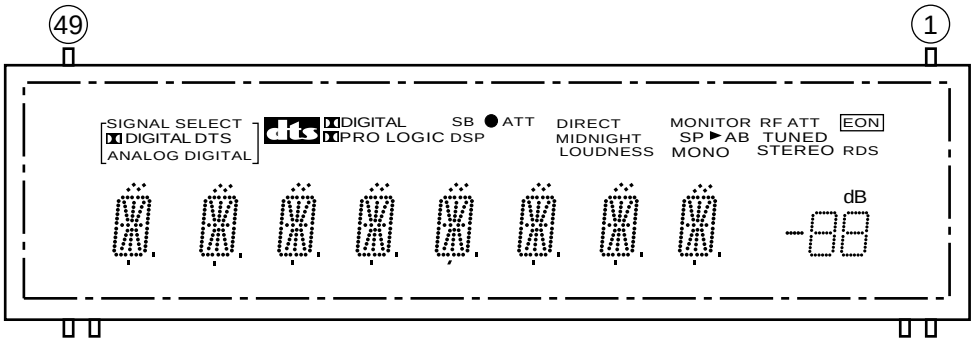
No.	Pin Name	I/O	Pin Function	Active
51	D_MUTE	O	Digital mute (Not used)	H
52	9273_CS	O	TC9273 Chip select	H
53	DSP_MT	O	DSP mute (ASSY mute)	H
54	CDC_RST	O	CODEC reset	H
55	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
56	Not used	–		
57	T_POWON	O	Tuner module ON/OFF (North America model only)	H
58	T_MUTE	O	Tuner mute	H
59	9164 CS	O	TC9163, TC9164 Chip select	
60	DSP_RST	O	YSS912 reset	
61	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	
62	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
63	RY_AC	O	AC relay ON/OFF	H
64	RY_A	O	Speaker A relay ON/OFF	H
65	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
66	RY_B	O	Speaker B relay ON/OFF	H
67	4053A	O	Component terminal control	H
68	4053INH	O	Component terminal control	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92	Not used	O	Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

7.2.2 DISPLAY

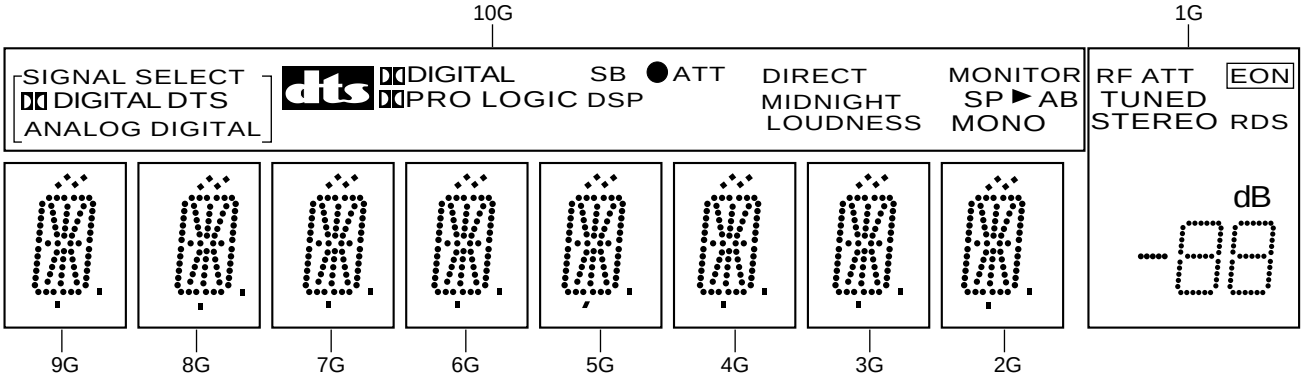
■ XAV3010 (FRONT ASSY : V401)

• FL DISPLAY

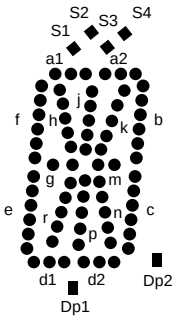
• Pin Assignment



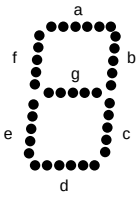
• Grid Assignment



• Segment Designation



(9G to 2G)



(1G)

• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

NOTE 1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 10G..... Grid
6) Field of vision is a minimum of 29° from the lower side.

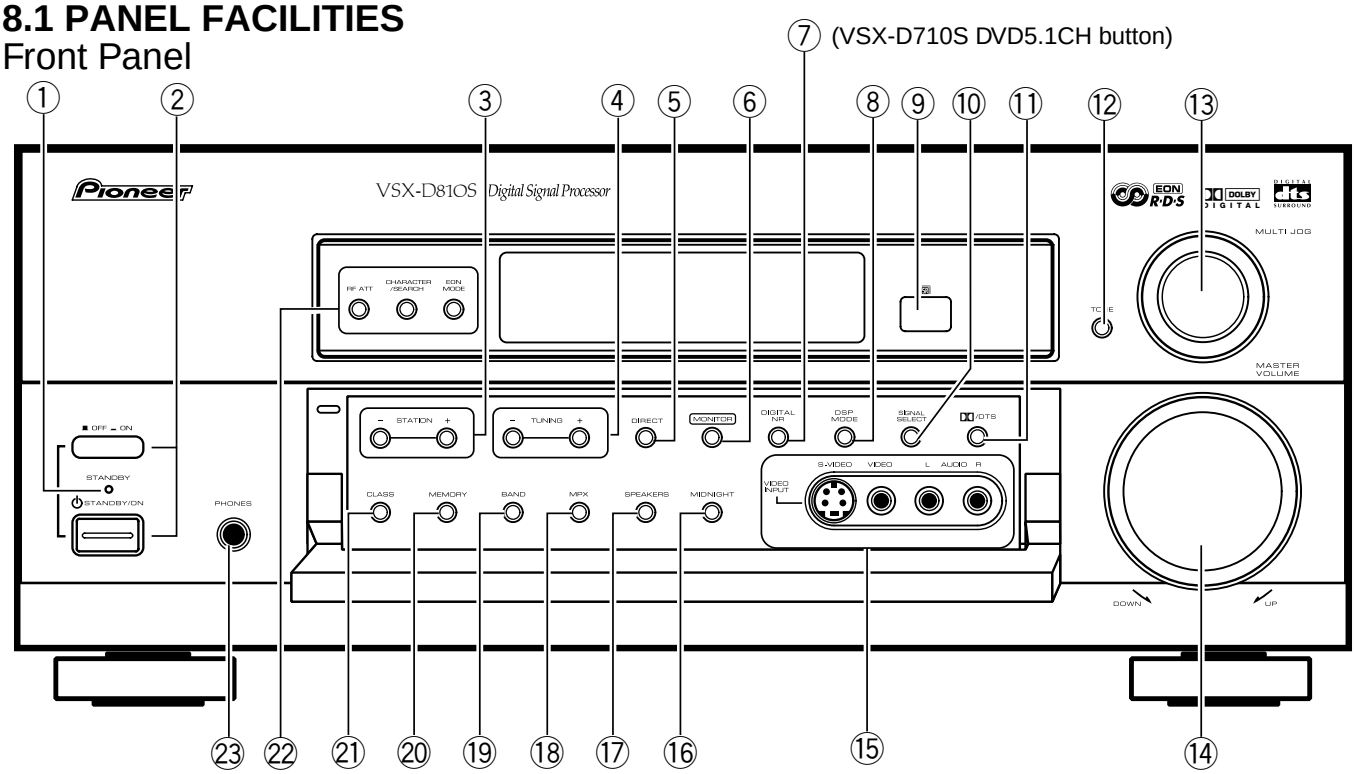
• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	MONO	a1	a1	a1	a1	a1	a1	a1	a1	dB
P2	B	a2	a2	a2	a2	a2	a2	a2	a2	2a
P3	A	h	h	h	h	h	h	h	h	2b
P4	SP ►	j	j	j	j	j	j	j	j	2f
P5	MONITOR	k	k	k	k	k	k	k	k	2g
P6	LOUDNESS	b	b	b	b	b	b	b	b	2c
P7	MIDNIGHT	f	f	f	f	f	f	f	f	2e
P8	DIRECT	m	m	m	m	m	m	m	m	2d
P9	DNR	g	g	g	g	g	g	g	g	1a
P10	ATT	c	c	c	c	c	c	c	c	1b
P11	●	e	e	e	e	e	e	e	e	1f
P12	DSP	r	r	r	r	r	r	r	r	1g
P13	SB	p	p	p	p	p	p	p	p	1c
P14	PRO LOGIC	n	n	n	n	n	n	n	n	1e
P15	DIGITAL	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	dts	d2	d2	d2	d2	d2	d2	d2	d2	•••••
P17	ANALOG	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	RDS
P18	DIGITAL	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	RF ATT
P19	[ ]	S1	S1	S1	S1	S1	S1	S1	S1	EON
P20	DTS	S4	S4	S4	S4	S4	S4	S4	S4	▭
P21	DIGITAL	S2	S2	S2	S2	S2	S2	S2	S2	TUNED
P22	SIGNAL SELECT	S3	S3	S3	S3	S3	S3	S3	S3	STEREO

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel



① **STANDBY indicator**
Lights when the receiver is in standby mode (note that the receiver consumes a small amount of power (1W) in standby mode).

② **OFF/ ON (Main power) button**
If the button is OFF ( ), the power of the receiver is shut off and the **STANDBY/ON** button on the receiver or the **RECEIVER** button on the remote control do not function. Pressing the button again will turn the receiver ON ( ) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using **STANDBY/ON** button on the receiver or the **RECEIVER** button on the remote control.

STANDBY/ON button
Switches the receiver between on and standby (note that the receiver consumes a small amount of power (1W) in standby mode).

③ **STATION (+/–) buttons**
Selects station memories when using the tuner.

④ **TUNING (+/–) buttons**
Selects the frequency when using the tuner.

⑤ **DIRECT button**
Use to switch DIRECT playback on or off. This mode bypasses the tone controls, channel levels, /DTS and DSP modes for the most accurate reproduction of a program source.

⑥ **MONITOR button**
Press to switch tape monitoring on/off.

⑦ **DVD5.1CH button (VSX-D710S)**
On the VSX-D710S this button switche between DVD5.1Ch input and regular DVD input.

⑧ **DSP MODE button**
Use to switch between the various DSP modes available **(HALL1, HALL 2, JAZZ, DANCE, THEATER1, THEATER 2)** and **DSP off**. Use this button to create different surround sound effects from any stereo source.

⑨ **Remote sensor**
Receives the signals from the remote control.

⑩ **SIGNAL SELECT button**
Use to select an analog or digital signal.

⑪ **/DTS button**
Use to switch between the various /DTS surround modes.

⑫ **TONE button**
This button allows you to activate the BASS & TREBLE controls. To adjust the BASS and/or TREBLE use the MULTI JOG dial. Tone can only be used in 2 channel stereo sound mode. The tone controls have no effect on the B speaker system.

⑬ **MULTI JOG dial**
You can use this dial for two purposes. Firstly, in normal mode turn it to select a source component. Secondly, use it to adjust the BASS and/or TREBLE levels when the TONE button has been activated (as explained above).

⑭ **MASTER VOLUME**
Use to set the overall listening volume.

⑮ **VIDEO INPUT jacks**
Connect a video camera, video game system, etc. to the **VIDEO INPUT** jacks.

⑯ **MIDNIGHT button**
Use when listening to movie soundtracks at low volume. This feature will enable you to hear quiet sounds and not get jolted by loud or sudden sound effects.

⑰ **SPEAKERS button**
Use to switch the speaker system **A → B → A+B → off**. In **B** and **A+B** speaker modes you hear only 2 channel stereo sound.

⑱ **MPX button**
If there is interference or noise during a FM radio broadcast, or the radio reception is weak, press the **MPX** button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

⑲ **BAND button**
Press to select the AM or FM band.

⑳ **MEMORY button**
Press to memorize a station for recall using the **STATION (+/–)** buttons.

㉑ **CLASS button**
Switches between the three banks (classes) of station memories.

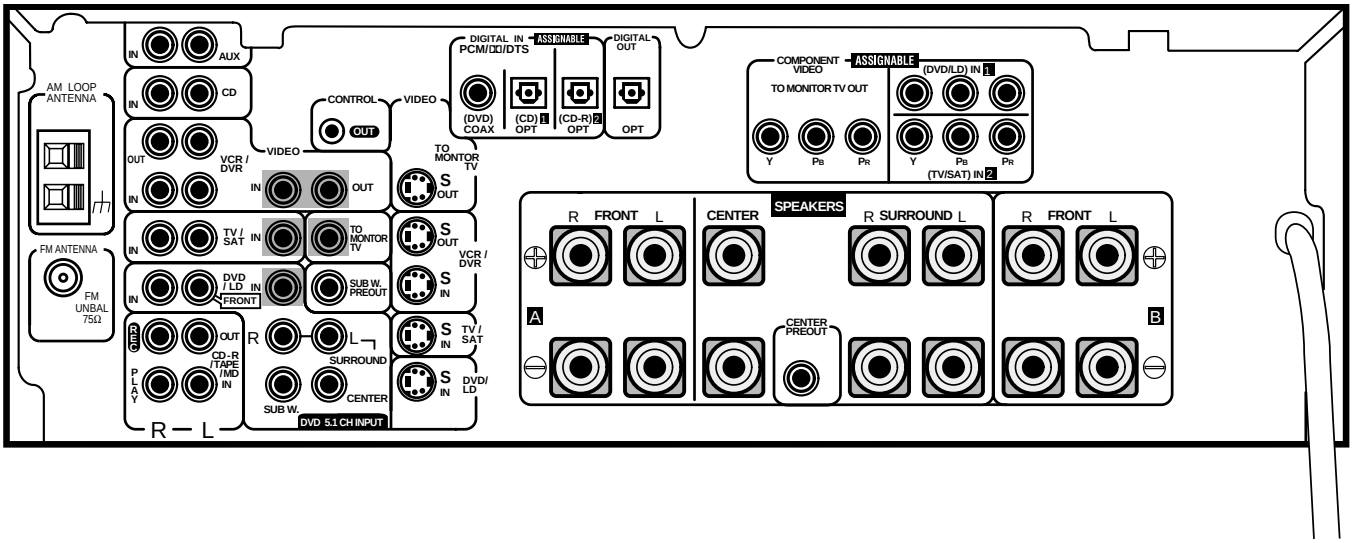
㉒ **RF ATT button**
Use to lower the input level of a radio signal that is too powerful or contains interference thus causing the receiver to distort

CHARACTER/SEARCH button
Use to search for different program types in RDS mode. It is also used to input station names.

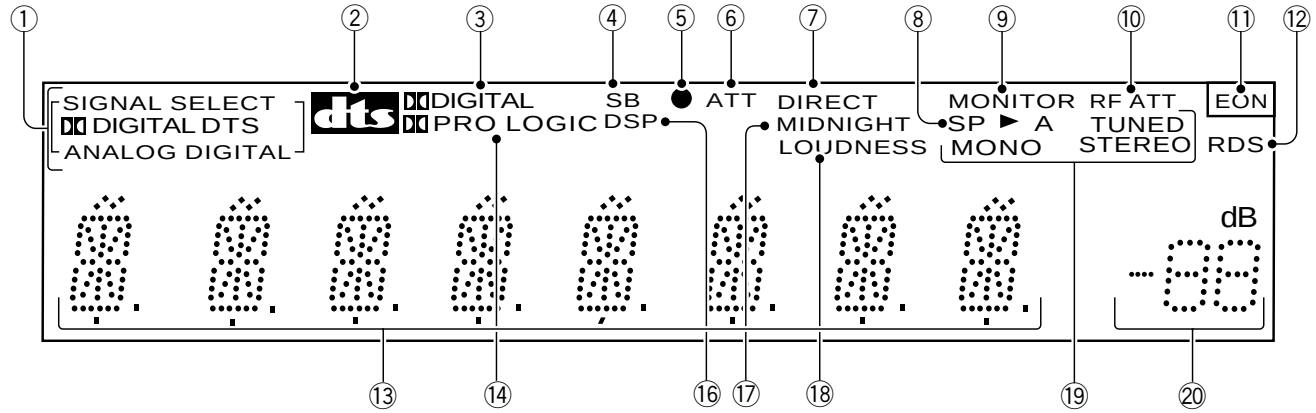
EON MODE button
Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

㉓ **PHONES jack**
Use to connect headphones but this does not switch the speakers off.

Rear Panel



Display



① **SIGNAL SELECT indicators**
Light to indicate the type of input signal assigned for the current component (see “Front Panel“, ⑩ SIGNAL SELECT).
DIGITAL : Lights when a Dolby Digital signal is played.
DTS: Lights when a source with DTS audio signals is played.
ANALOG : Lights when an analog signal is selected.
DIGITAL : Lights when a digital audio signal is selected.
[ ]: Lights when the AUTO setting is selected. (Not used for VSX-D710S)

② **DTS indicator**
Lights when DTS mode is being used.

③ **DIGITAL indicator**
When the (DOLBY)/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Digital signal. However, **PRO LOGIC** lights during two channel playback of Dolby Digital.

④ **Surround Back indicator (Not used for VSX-D710S)**
Lights when most Surround Back channel flag encoded (6.1channel) software is playing. (With some Surround Back channel software the surround back indicator won’t light because there is no flag encoded in the software.) If you play DTS 5.1/6.1 channel software surround sound will be heard whether it is encoded with a surround back channel flag or not.

⑤ **OVERLOAD indicator**
This lights when an analog signal is too high (the **SIGNAL SELECT** would have to be on ANALOG). It indicates the sound is distorting and the input signal should be reduced.

⑥ **ATT indicator**
Lights when ATT is used to attenuate (reduce) the level of the input signal (can only be used in ANALOG mode).

⑦ **DIRECT indicator**
Lights when source DIRECT is in use. This function bypasses all tone, balance, DSP and Dolby Surround effects.

⑧ **SPEAKER indicator**
Shows if the speaker system is on or not. SP ►A means that speakers are switched on. SP ► means that speakers are switched off.

⑨ **MONITOR indicator**
Lights when **MONITOR** is selected. Used to hear a recording as it's being made.

⑩ **RF ATT indicator**
Lights when the **RF ATT** is on.

⑪ **EON indicator**
The box around **EON** indicator lights to inform you that the currently tuned station carries the EON data service. When the EON mode is set, the **EON** indicator light’s, but during actual reception of an EON broadcast the **EON** indicator will flash. An empty box in the **EON** indicator spot means it is possible to pick up an EON broadcast but the receiver has not been set to do so (this will only appear when RDS is switched on).

⑫ **RDS indicator**
Lights when an RDS broadcast is received.

⑬ **CHARACTER display**
Shows the radio frequency or function (DVD/LD, CD, etc.) receiver is using .

⑭ **PRO LOGIC indicator**
When the /DTS mode of the receiver is on, this lights to indicate playback of a two channel source.

⑯ **DSP indicator**
Lights when any “Advanced Theater” or “DSP” mode is selected.

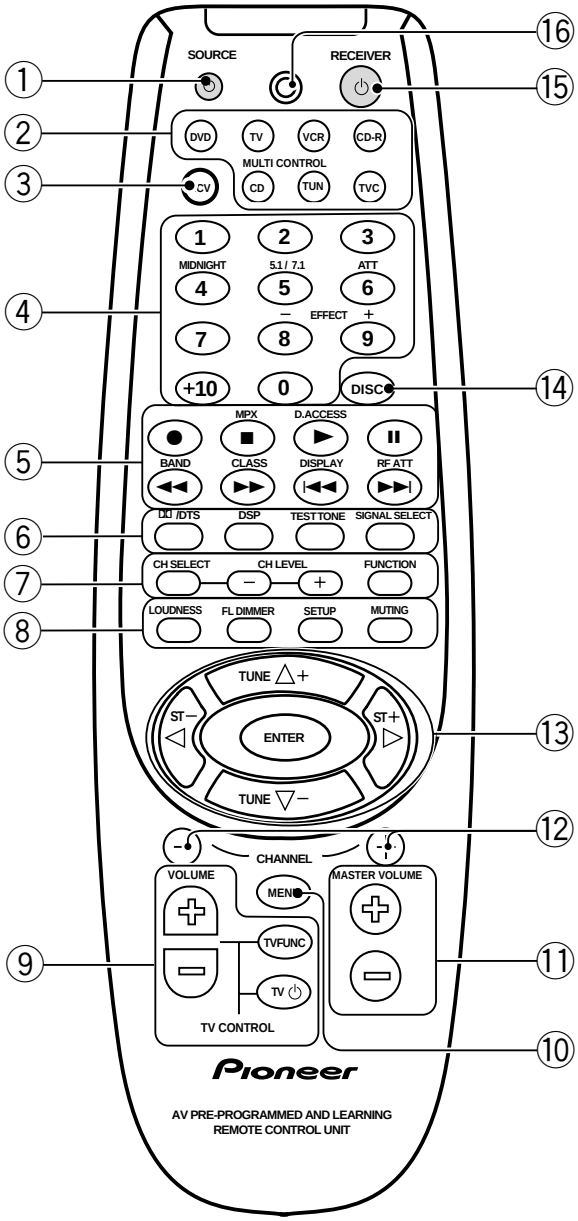
⑰ **MIDNIGHT indicator**
Lights when MIDNIGHT listening mode is in use.

⑱ **LOUDNESS indicator**
Lights when the LOUDNESS is on. Use to boost the bass and treble at low volume.

⑲ **TUNER indicators**
MONO:
Lights when the mono mode is set using the **MPX** button.
TUNED:
Lights when a broadcast is being received.
STEREO:
Lights when a stereo FM broadcast is being received in auto stereo mode.

⑳ **MASTER VOLUME LEVEL**
Shows the overall volume level. Volume level is maintained even when the power is off. **---dB** indicates the minimum level, and **0dB** indicates the maximum level.

Remote Control



① **SOURCE ⏻ button**
Use to turn on/off other components connected to the receiver.

② **MULTI CONTROL buttons**
Use to put the receiver/remote control in the stated mode.
For other equipment controls, see “Controlling the Rest of Your System”.

③ **RCV button**
Use this button when setting up the surround sound for the receiver. Also press it if you want to use special features attached to some of the number buttons, for example MIDNIGHT, 5.1/7.1, EFFECT +/– or ATT.

④ **NUMBER/MODE buttons**
Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.
Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 Ch setting is on).

MIDNIGHT button
Use to put receiver in **MIDNIGHT** mode. To use first press the **RCV** button then operate this button.

5.1/7.1 button
(VSX-D710S is 5.1 Ch)
When the DVD/LD or DVD 5.1/7.1 Ch function is selected each press switches the DVD/LD input between DVD/LD and DVD 5.1/7.1 Ch. To use first press the **RCV** button then operate this button.

ATT button
When the overload indicator lights use this button to attenuate (lower) the level of an analog input signal and prevent distortion. To use first press the **RCV** button then operate this button.

EFFECT +/– buttons
Use to add or subtract the amount of effect in different DSP sound modes (except 6 Ch Stereo) or advanced listening modes.
To use first press the **RCV** button then operate these buttons.

⑤ **THE FOLLOWING BUTTONS ARE BOTH CONTROLS FOR OTHER COMPONENTS (LIKE A DVD PLAYER) AND DEDICATED TUNER CONTROLS. THE TUNER CONTROLS ARE EXPLAINED HERE. YOU CAN USE THEM AFTER YOU HAVE PUSHED THE TUNER MULTI CONTROL BUTTON.**

BAND button
Use to switch between the AM and FM band when in TUNER mode.

CLASS button
Use to switch between the three banks (classes) of station memories.

MPX button
Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality.

D. ACCESS button
Use to directly access a radio station by pressing the number of the station you want.

DISPLAY button
Use to display the RDS information.

RF ATT button
Use to lower the input level of a radio signal that is too powerful or contain interference thus causing the receiver to distort.

⑥ **/DTS button**
Use to put the receiver in DOLBY DIGITAL, DOLBY SURROUND and DTS modes. To use first press the **RCV** button then operate this button.
DSP button
Use to put receiver in one of the DSP modes. To use first press the **RCV** button then operate this button.
TEST TONE button
Use to sound the TEST TONE when setting up the surround sound of the receiver (the /DTS mode must be on). To use first press the **RCV** button then operate this button.
SIGNAL SELECT
Use to select the proper signal (analog, digital) for the source your are inputting.

⑦ **CH SELECT button**
Use to select a speaker when setting up the surround sound of the receiver.
CH LEVEL +/–
Use to set up the levels of the surround sound of the receiver.
FUNCTION button
Use to select the playback or recording source. This button lets you cycle through the different functions of the receiver in the following order: CD, TUNER, AUX, CDR/TAPE, VCR/DVR, DVD/LD, VIDEO, and TV/SAT.

⑧ **LOUDNESS button**
Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.
FL DIMMER button
Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.
SETUP button
Use this button when setting up the remote control to control other components.
MUTING button
Use to mute the sound or restore the sound if it has been muted.

⑨ **THE FOLLOWING BUTTONS ARE DEDICATED TV CONTROL BUTTONS. THEY ARE ONLY USED FOR CONTROLLING YOUR TV.**
TV FUNC button
Use to select the TV function.
TV ⏻ button
Use to turn on/off the power of the TV.
TV VOLUME +/– buttons
Use to adjust the volume on your TV.

⑩ **MENU button**
Use to access different menus associated with your DVD player. To use first press the **DVD** button then operate this button.

⑪ **MASTER VOLUME +/– buttons**
Use to set the overall listening volume.

⑫ **CHANNEL +/– buttons**
Use to skip tracks backward or forward on CDs, DVDs, etc and change channels on the VCR, DVR, etc.

⑬ ◁ ▷ △ ▽ **(TUNE/ST +/–) & ENTER buttons**
Use these arrow buttons when setting up your surround sound system. These buttons are also used to control DVD menus/options and for deck 1 of a double cassette deck player. The TUNE/ST +/– buttons can be used to find radio frequencies and preset stations, respectively .

⑭ **DISC button**
Use to select a disc and a multi-CD player. To use first press the **CD** button then operate this button.

⑮ **RECEIVER ⏻ (POWER) button**
This switches between STANDBY mode and power ON for this receiver.

⑯ **LED DISPLAY**
This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

8.2 SPECIFICATIONS

Amplifier Section

Continuous Power Output (STEREO MODE)
FRONT ..... 100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (SURROUND MODE)
FRONT ..... 100 W/ch (1 kHz, THD 1 %, 8 Ω)
CENTER ..... 100 W (1 kHz, THD 1 %, 8 Ω)
SURROUND ..... 100 W/ch (1 kHz, THD 1 %, 8 Ω)

- Above specifications are applicable when the power supply is 230V.

Input (Sensitivity/Impedance)
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 200 mV/47 kΩ
Frequency Response
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR/DVR OUT, CD-R/TAPE/MD REC ..... 200 mV/2.2 kΩ
Tone Control
BASS ..... ± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS ..... +9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio
[DIN (Continuous rated power output/50 mW)]
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT, VIDEO .....88 dB/64 dB

VIDEO Section

Input (Sensitivity/Impedance)
VCR/DVR, DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR/DVR, TO MONITOR TV OUT ..... 1 Vp-p/75 Ω
Frequency Response
VCR/DVR, DVD/LD, TV/SAT → MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB

COMPONENT VIDEO Section

Input (Sensitivity/Impedance)
DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
TO MONITOR TV OUT ..... 1 Vp-p/75 Ω

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono:13.2 dBf, IHF (1.3 µV/ 75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) ..... Mono: 62 dB
Stereo: 58 dB
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1dB)
Antenna Input (DIN) ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 30 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
UK model ..... AC 230 V, 50/60 Hz
European model ..... AC 220 – 230 V, 50/60 Hz
Power Consumption
VSX-D710S ..... 250 W
In Standby ..... 1 W
Dimensions ..... 420 (W) x 158 (H) x 401 (D) mm
Weight (without package)
VSX-D710S .....9.5 kg

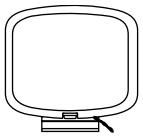
Furnished Parts

AM loop antenna 1
FM wire antenna 1
Dry cell batteries (AA size IEC R6P) 2
Remote control 1
Operating instructions 1

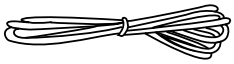
NOTE:
- Specifications and the design are subject to possible modifications without notice, due to improvements.

"DTS" ,"ES" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. Manufactured under license from Digital Theater Systems, Inc.

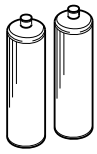
Accessories



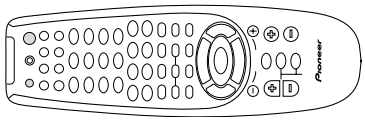
AM loop antenna
(ATB7009)



FM wire antenna
(ADH7005)



AA size IEC R6P
Dry cell batteries (x2)



Remote control unit
(XXD3029)

Service Manual

ORDER NO.
RRV2447

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D710S
VSX-D710S-G

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-D710S	VSX-D710S-G		
SDPWXJI	◯	–	AC110V/120-127V/220V/240V	With the voltage selector
BXJI	–	◯	AC110V/120-127V/220V/240V	With the voltage selector
HLXJI	–	◯	AC220-230V	AC240V, ✻

✻ : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in this Manual.

● This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
VSX-D710S/MYXJIEW	RRV2432	

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS ····· 2
2. SCHEMATIC DIAGRAM ····· 6
3. PCB CONNECTION DIAGRAM ····· 9

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

©PIONEER CORPORATION 2001

T – ZZK APR. 2001 Printed in Japan

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56 x 10^1 → 561 ····· RD1/4PU 5 6 1 J
47k → 47 x 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 → R50 ····· RN2H R 5 0 K
1 → 1R0 ····· RS1P 1 R 0 K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562 x 10^1 → 5621 ····· RN1/4PC 5 6 2 1 F

■ CONTRAST TABLE

VSX-D710S/SDPWXJI, VSX-D710S-G/BXJI, HLXJI and VSX-D710S/MYXJIEW are constructed the same except for the following :

Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D710S /MYXJIEW	VSX-D710S /SDPWXJI	VSX-D710S-G /BXJI	VSX-D710S-G /HLXJI	
		PCB ASSEMBLIES					
P5- 1		D.D & INPUT ASSY	XWX3027	XWX3026	XWX3026	XWX3026	
	NSP	AMP&PS ASSY	XWK3020	XWK3021	XWK3021	XWK3020	
P5- 2		├ AMP&PRIMARY ASSY	XWZ3377	XWZ3378	XWZ3378	XWZ3377	
P5-12	NSP	├ TRANS 1ASSY	XWZ3390	Not used	Not used	XWZ3390	
		└ VOLTAGE SELECT SW ASSY	Not used	XWZ3393	XWZ3393	Not used	No. 1
	NSP	COMPLEX ASSY	XWK3006	XWK3007	XWK3007	XWK3008	
P6- 1		└ FRONT ASSY	XWZ3341	XWZ3342	XWZ3342	XWZ3343	
		PACKING SECTION					
P3- 1		FM Wire Antenna	ADH7005	ADH7004	ADH7004	ADH7004	
P3- 2	NSP	Warranty Card	ARY7022	Not used	Not used	Not used	
P3- 5		Operating Instructions (English)	XRB3005	Not used	Not used	Not used	
P3- 6		Operating Instructions (German)	XRC3031	Not used	Not used	Not used	
P3- 7		Remote Control Unit	XXD3029	XXD3028	XXD3028	XXD3028	
P3-13		Packing Case	XHD3151	XHD3156	XHD3158	XHD3157	
P3-14		Operating Instructions (Dutch/Spanish/Portuguese)	XRC3032	Not used	Not used	Not used	
P3-15		Operating Instructions (French/Italian/Swedish)	XRC3033	Not used	Not used	Not used	
		Operating Instructions (English/Chinese/Spanish)	Not used	XRE3038	XRE3038	XRE3038	
		Caution 220V Label	Not used	ARR1003	ARR1003	Not used	
	⚠	AC Plug Adapter	Not used	Not used	AKX7011	Not used	Accessories
		EXTERIOR SECTION					
P5-11		FM/AM TUNER Unit	AXX7048	AXX7047	AXX7047	AXX7047	
P5-15	⚠	Power Transformer (AC220-230V)	XTS3046	Not used	Not used	XTS3046	
P5-15	⚠	Power Transformer (AC110V/120-127V/220V/240V)	Not used	XTS3048	XTS3048	Not used	
P5-16	⚠	Fuse (FU1 : T2.5A/250V)	REK1026	Not used	Not used	REK1026	
P5-16	⚠	Fuse (FU1 : T6.3A/250V)	Not used	REK1030	REK1030	Not used	
P5-19		Strain Relief/Cord Bush	CM-22B	AEC7317	AEC7317	CM-22B	
P5-20	⚠	AC Power Cord	VDG1077	XDG3010	XDG3010	VDG1077	
P5-37		Insulator (Front side)	PNW2766	Not used	PNW2766	PNW2766	
P5-37		Insulator/Foot Assy (Rear side)	PNW2766	REC1263	REC1263	REC1263	

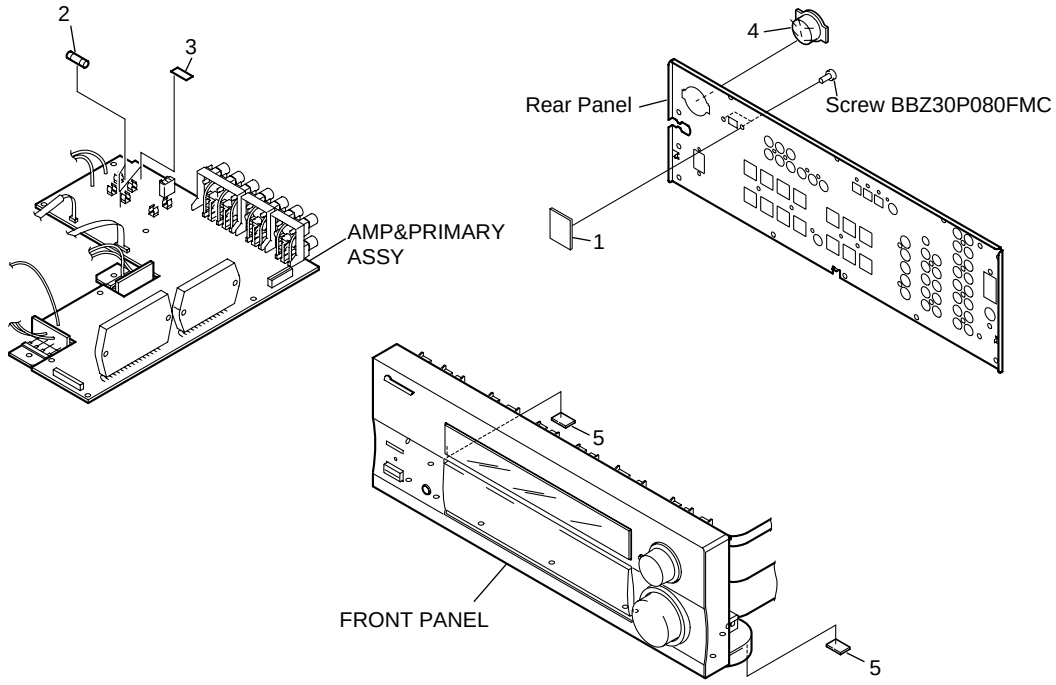
Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D710S /MYXJIEW	VSX-D710S /SDPWXJI	VSX-D710S-G /BXJI	VSX-D710S-G /HLXJI	
P5-39		Rear Panel	XNC3072	XNC3085	XNC3085	XNC3086	
P5-40		Bonnet Case	XZN3112	XZN3111	XZN3114	XZN3114	
		Screw (Both sides of Bonnet Case)	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	FBT40P080FNI	
	⚠	Fuse (FU2, FU3 : T2.5A/250V)	Not used	REK1026	REK1026	Not used	No. 2
	NSP	Fuse Card	Not used	XAX3218	XAX3218	Not used	No. 3
	⚠	Voltage Selector	Not used	AKX-507	AKX-507	Not used	No. 4
		Rubber Sheet	Not used	AEB1111	Not used	Not used	No. 5
		FRONT PANEL SECTION					
P6- 9		Name Plate	PAM1776	PAM1776	PAM1779	PAM1779	
P6-11		Select Knob	XAB3008	XAB3008	XAB3009	XAB3009	
P6-12		Volume Knob	XAB3011	XAB3011	XAB3012	XAB3012	
P6-13		Power Button	XAD3062	XAD3062	XAD3063	XAD3063	
P6-14		Power Button M	AAD7442	AAD7442	AAD7491	AAD7491	
P6-15		Jog Button	XAD3065	XAD3065	XAD3066	XAD3066	
P6-16		Door Button	XAD3070	XAD3070	XAD3071	XAD3071	
P6-17		RDS Button	XAD3072	Not used	Not used	Not used	
P6-18		Display Panel	XAK3171	XAK3172	XAK3186	XAK3186	
P6-19		Button Cover	XAK3178	XAK3178	XAK3179	XAK3179	
P6-20		Cushion	XED3001	XED3001	XED3002	XED3002	
P6-21		Front Panel	XMB3036	XMB3039	XMB3040	XMB3040	
P6-26	NSP	Door Assy	XXG3068	XXG3068	XXG3075	XXG3075	
P6-27		Door	XAK3173	XAK3173	XAK3174	XAK3174	
P6-28		Door Cover	XAK3175	XAK3175	XAK3176	XAK3176	
P6-29		Screw	XBA3001	XBA3001	XBA3002	XBA3002	

Notes : ●The numbers in the remarks column correspond to the numbers on the " EXPLODED VIEWS ".

● For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES", "PCB PARTS LIST", "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

■ EXPLODED VIEWS

● EXTERIOR SECTION



■ CONTRAST OF PCB ASSEMBLIES

AF D.D & INPUT ASSY

XWX3026 and XWX3027 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWX3027	XWX3026	
	Q102	2SC2412K	Not used	
	Q103	Not used	DTA143EK	
	Q104	Not used	DTC124EK	
	L111, L112	QTL1013	Not used	
	C158	CKSRYB103K50	Not used	
	C211, C212	CCSRCH220J50	Not used	
	R119	RS1/16S0R0J	Not used	
	R149	RS1/16S101J	Not used	
	R150	RS1/16S221J	Not used	
	R151	RS1/16S472J	Not used	
	R215, R216	Not used	RS1/10S0R0J	

BF AMP&PRIMARY ASSY

XWZ3378 and XWZ3377 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		XWZ3377	XWZ3378	
⚠	T51 STANDBY TRANSFORMER	ATT7037	ATT7038	
	C613, C614, C637, C663, C664	CCCSL101J50	Not used	
	C701, C702 (4700µF/63V)	ACH7134	Not used	
	C701, C702 (4700µF/71V)	Not used	ACH7137	
	C757–C759, C765–C768	CQMBA472J50	Not used	
	C769, C770	CKPUYB102K50	Not used	
	R703, R704	RD1/4PU683J	RD1/4PU623J	
	R707, R708	RD1/4PU154J	RD1/4PU184J	
	H53–H56 FUSE CLIP	Not used	AKR7001	
	J11 JUMPER WIRED	Not used	DB215NB0	
	J12 JUMPER WIRED	Not used	DB815NB0	
	J13 JUMPER WIRED	Not used	DB015NB0	

KF FRONT ASSY

XWZ3342, XWZ3343 and XWZ3341 are constructed the same except for the following :

Mark	Symbol and Description	Part No.			Remarks
		XWZ3341	XWZ3342	XWZ3343	
	IC481	BU1923F	Not used	Not used	
	Q481	2SA1037K	Not used	Not used	
	Q482	DTC143EK	Not used	Not used	
	Q483	2SC3326	Not used	Not used	
	L481	LFEA2R2J	Not used	Not used	
	S466–S468	ASG1051	Not used	Not used	
	C481, C482	CKSQYB102K50	Not used	Not used	
	C483	CEAT101M10	Not used	Not used	
	C484	CEAT2R2M50	Not used	Not used	
	C485	CKSQYB472K50	Not used	Not used	
	C486	CEATR10M50	Not used	Not used	
	C488	CCSRCH561J50	Not used	Not used	
	C489, C490	CCSRCH270J50	Not used	Not used	
	R429	RS1/16S332J	RS1/16S751J	RS1/16S182J	
	R481	RS1/16S473J	Not used	Not used	
	R482	RS1/16S222J	Not used	Not used	
	R483	RS1/16S333J	Not used	Not used	
	R484	RS1/16S104J	Not used	Not used	
	R485–R487	RS1/16S102J	Not used	Not used	
	R1501, R1502	Not used	RS1/16S0R0J	RS1/16S0R0J	
	X481 CRYSTAL RESONATOR (4.332MHz)	ASS7004	Not used	Not used	

■ PCB PARTS LIST

Mark	No.	Description	Part No.

RF VOLTAGE SELECT SW ASSY

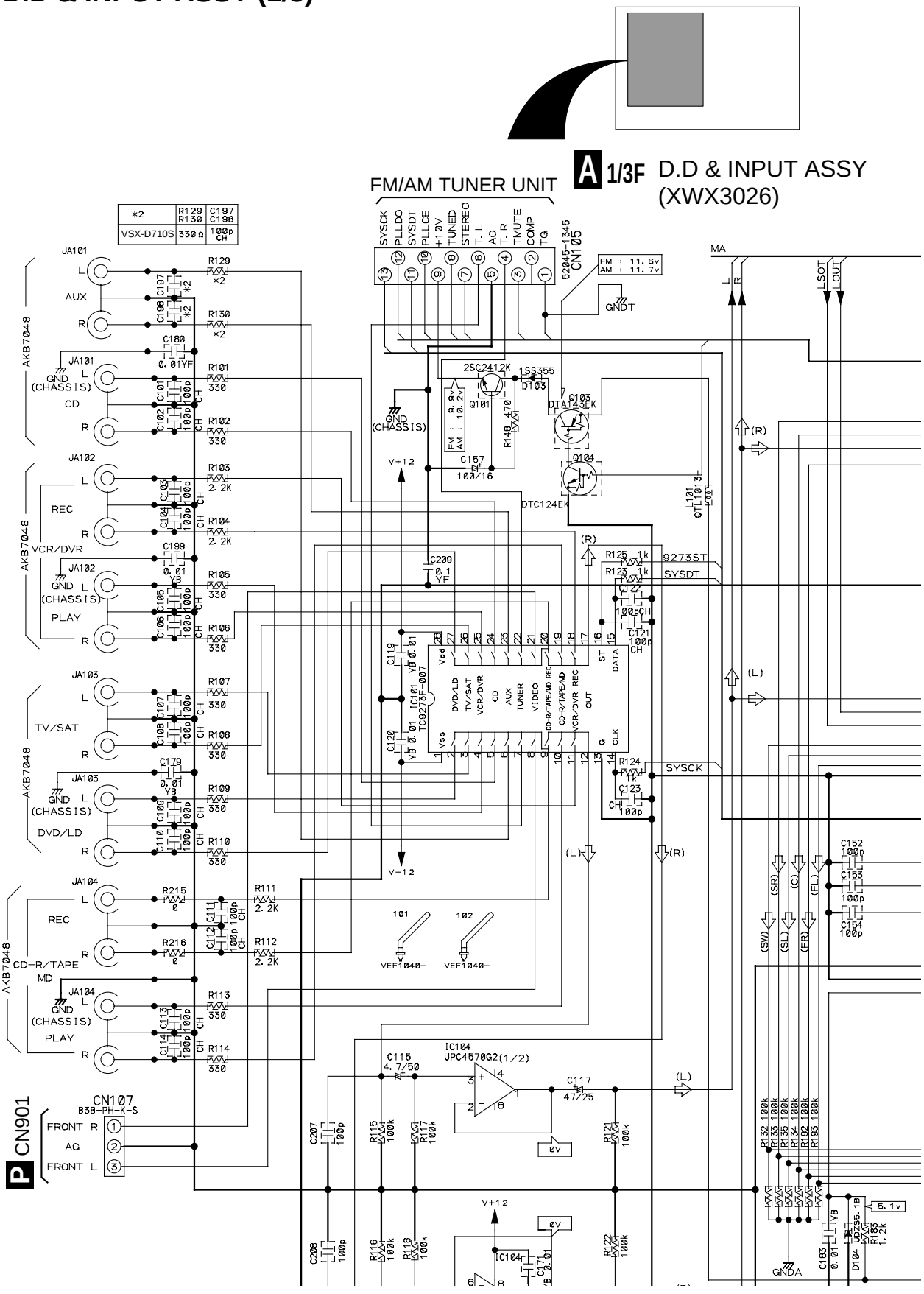
SWITCHES

⚠	S51	VOLTAGE SELECTOR	AKX1033

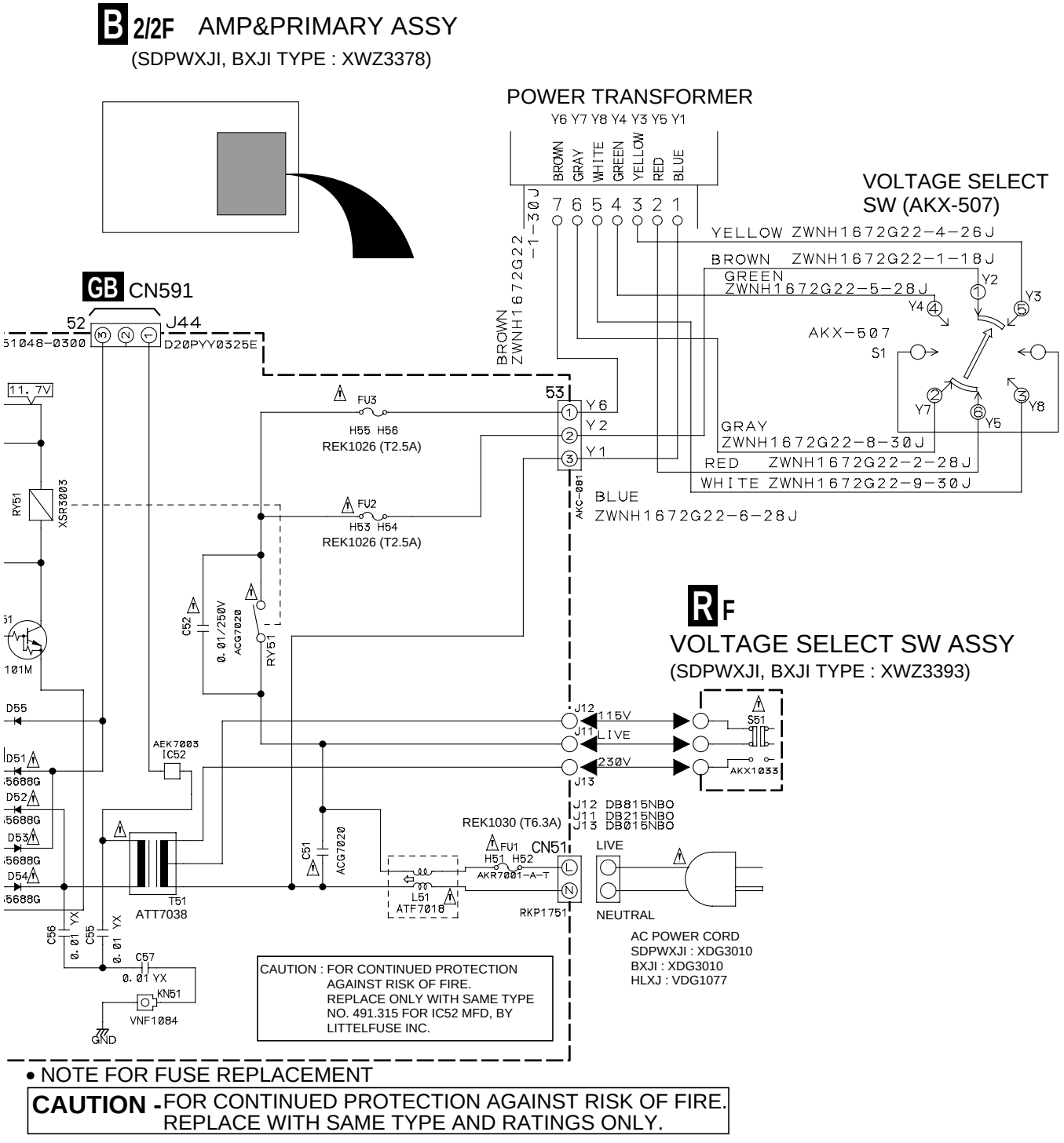
2. SCHEMATIC DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

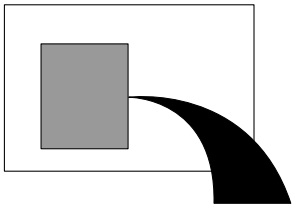
2.1 D.D & INPUT ASSY (1/3)



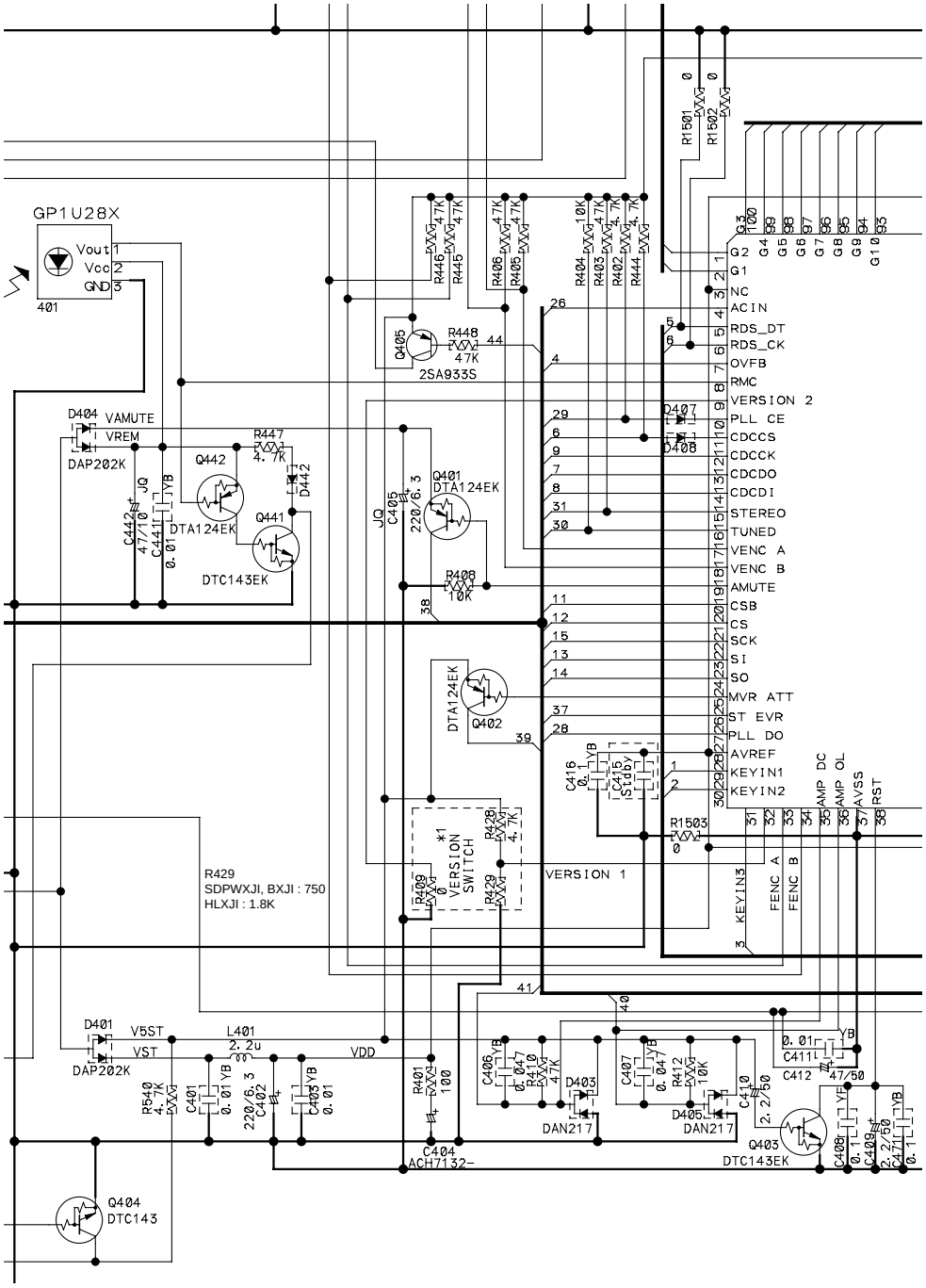
2.2 AMP&PRIMARY (2/2) and VOLTAGE SELECT SW ASSYS



2.3 FRONT ASSY



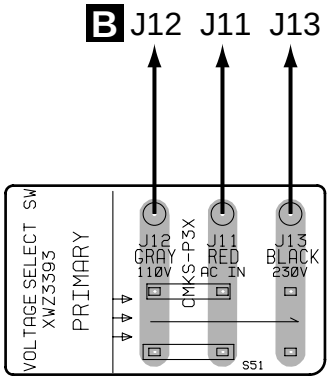
FRONT ASSY
(SDPWXJI, BXJI : XWZ3342)
(HLXJI : XWZ3343)



3. PCB CONNECTION DIAGRAM

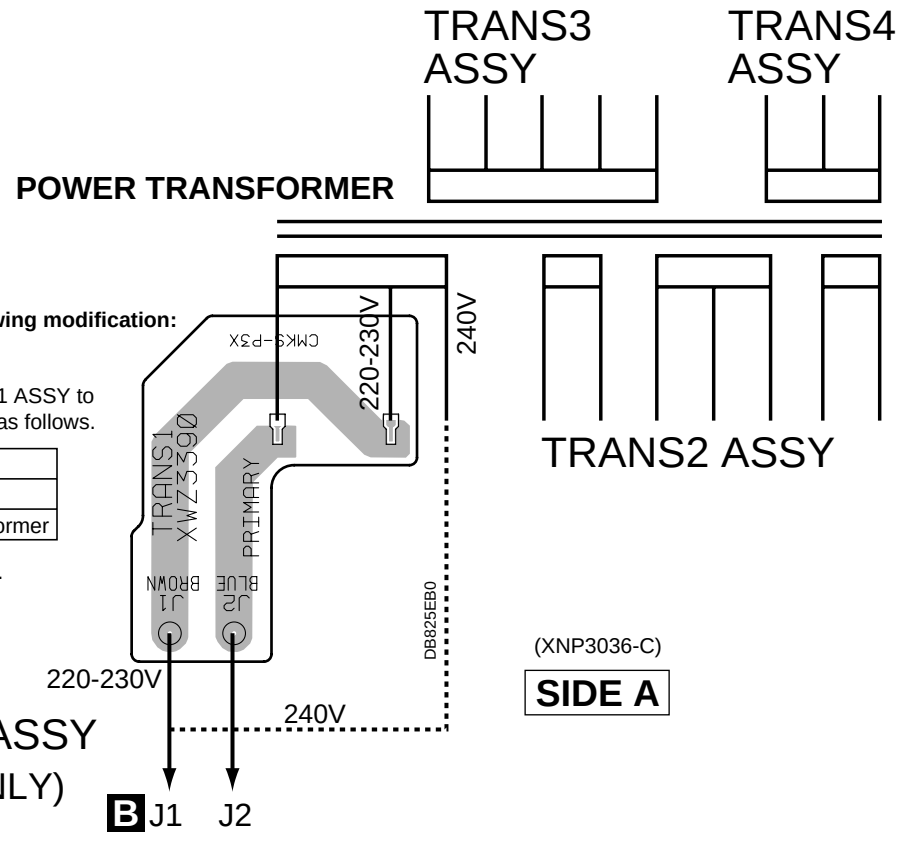
3.1 VOLTAGE SELECT SW and TRANS1 ASSYS

RF VOLTAGE SELECT SW ASSY (SDPWXJI AND BXJI TYPES ONLY)



(XNP3036-C)

SIDE A



● **Line Voltage Selection**

Line Voltage can be changed by the following modification:

1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection wire from TRANS 1 ASSY to AMP&PRIMARY ASSY (Terminal No. J1) as follows.

Voltage	Terminal No.
220-230V	J1 of TRANS 1 ASSY
240V	240V terminal of power transformer

4. Stick a line voltage label on the rear panel.

Description	Part No.
220V label	AAX-193
240V label	AAX-192

GA TRANS1 ASSY (HLXJI TYPE ONLY)

(XNP3036-C)

SIDE A